CDP-897

SERVICE MANUAL

Canadian Model
AEP Model
E Model
Australian Model

Model Name Using Similar Mechanism	CDP-797
CD Mechanism Type	CDM14-5BD8A
Optical Pick-Up Block Type	BU-5BD8A

SPECIFICATIONS

Compact disc player

Frequency response	2 Hz – 20 kHz ±0.5 dB
Signal to noise ratio	More than 112 dB
Dynamic range	More than 98 dB
Harmonic distortion	Less than 0.0027%
Channel separation	More than 107 dB

Outputs

LINE OUT (FIXED) (phono jacks)	Output level 2V (at 50 kiloohms, non DSP mode.) Load impedance over 10 kiloohms
LINE OUT (VARIABLE) (phono jacks)	Output level max. 2V (at 50 kiloohms, non DSP mode.) Load impedance over 50 kiloohms
DIGITAL OUT (OPTICAL) (optical) output connector)	Wave length 660 nm Output level – 18 dBm
HEADPHONES (Stereo phone jack)	Output level max. 28 mW Load impedance 32 ohms
Laser output	Max. 44.6 μW This output is the value measured at a distance of about 200 mm from the objective lens surface on the Optical Pick-up Block.

General

Power requirements	AEP Model 220 – 230 V AC, 50/60 Hz Australian Model 240 V AC, 50Hz Canadian Model 120 V AC, 60 Hz E Model 110 - 120 or 220 - 240 V AC adjustable, 50/60 Hz
Power consumption	14 W
Dimensions (approx., including projections)	430×110×295 mm (w/h/d) (17×4 3/8×13 1/2 inches)
Weight (approx.)	3.9 kg (8 lbs 10 oz)

Remote commander

Remote control system	Infrared control
Power requirements	3 V DC with two batteries size AA (IEC designation R6)
Dimensions	62×18×175 mm (w/h/d) (2 1/2×23/32×7 inches)
Weight	130 g (4.6 oz) Including batteries

Supplied accessories

Connecting cord	1 (2 phono plugs ↔ 2 phono plugs)
Remote commander	1
Sony SUM-3(NS) batteries	2

Design and specifications are subject to change without notice.

MICROFILM

COMPACT DISC PLAYER

SONY®

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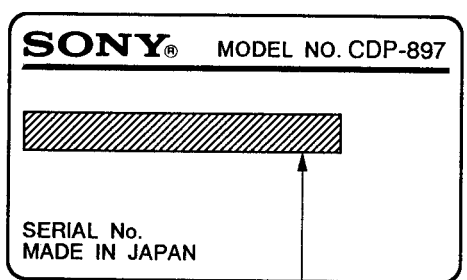
TABLE OF CONTENTS

Section	Title	Page
	Specifications	1
	Model Identification	2
	Notes on Handling the Optical Pick-Up Block or Base Unit	2
1.	**GENERAL**	
	Identifying the Parts	3
2.	**DISASSEMBLY**	4
3.	**ELECTRICAL CHECKS**	5
4.	**DIAGRAMS**	
4-1.	Block Diagram	7
4-2.	BD Section Printed Wiring Boards and Schematic Diagram	11
4-3.	Main Section Printed Wiring Boards	15
4-4.	Main Section Schematic Diagram	19
5.	**EXPLODED VIEWS**	27
6.	**ELECTRICAL PARTS LIST**	31

MODEL IDENTIFICATION

– Model Number Label –



Canadian model: AC: 120 V 60 Hz 14W
AEP, Germany model: AC: 220 – 230 V ~50/60 Hz
Australian model: AC: 240 V ~50/60 Hz
E model: AC: 110 – 120, 220 – 240 V ~50/60 Hz 14 W

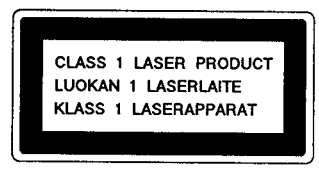
NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe more than 30 cm away from the objective lens.

For AEP, E, Australian Model



This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

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This section is extracted from instruction manual.

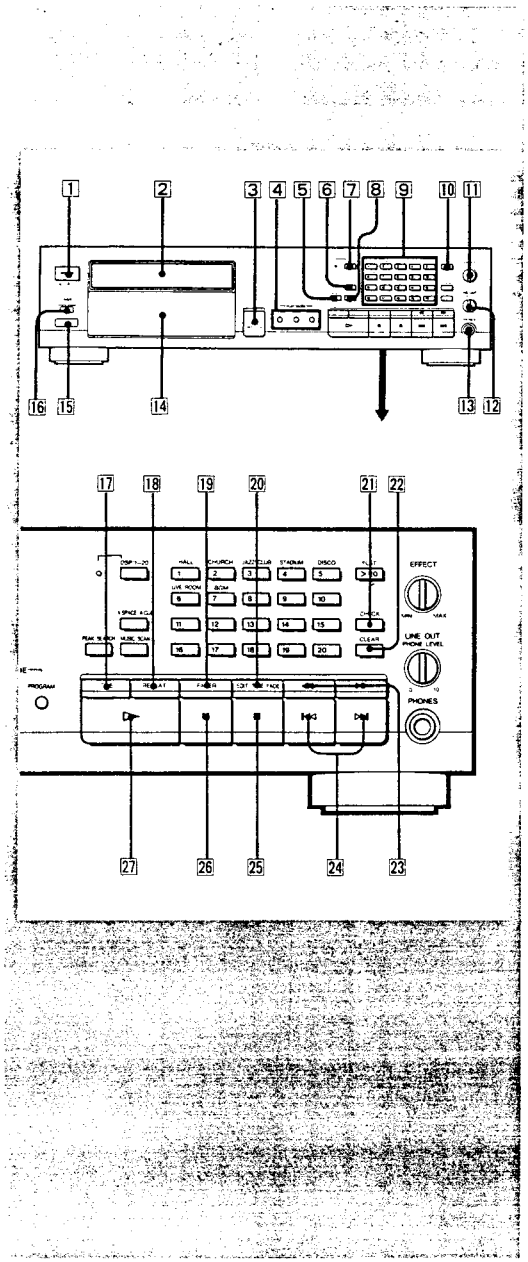
Identifying the Parts

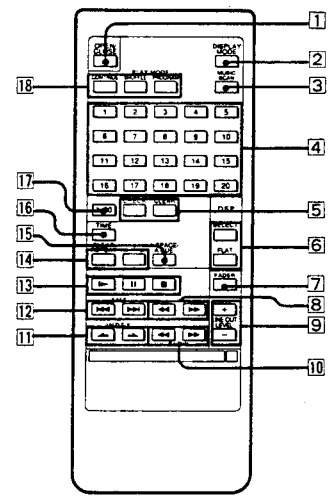
Front Panel

Refer to the pages indicated in ( ) for details.

1. POWER switch (22)
2. Disc tray (22)
3. ⏏ OPEN/CLOSE button (22)
4. PLAY MODE buttons
   CONTINUE button (22)
   SHUFFLE button (38)
   PROGRAM button (52)
5. PEAK SEARCH button (80)
6. A. SPACE/A. CUE button (30, 78)
7. DSP/1-20 button and indicator (32)
8. MUSIC SCAN button (44)
9. Numeric buttons/DSP SELECT buttons (26, 32)
10. >20 (over 20)/FLAT button (26, 36)
11. EFFECT level control (34)
12. LINE OUT/PHONE LEVEL control (22)
13. PHONES jack (22)
14. Display window (24)
15. Remote sensor
16. TIMER switch (82)
17. TIME button (24)
18. REPEAT button (48)
19. FADER (fade in/fade out) button (78)
20. EDIT/TIME FADE button (76)
21. CHECK (program check) button (52)
22. CLEAR (program clear) button (42, 52)
23. ◀◀ ▶▶ (manual search) buttons (28)
24. ⏮⏭AMS*buttons(26)
25. ■ (stop) button (22)
26. ⏸ (pause) button (22)
27. ▶ (play) button (22)

* AMS is the abbreviation of Automatic Music Sensor.





Remote Commander

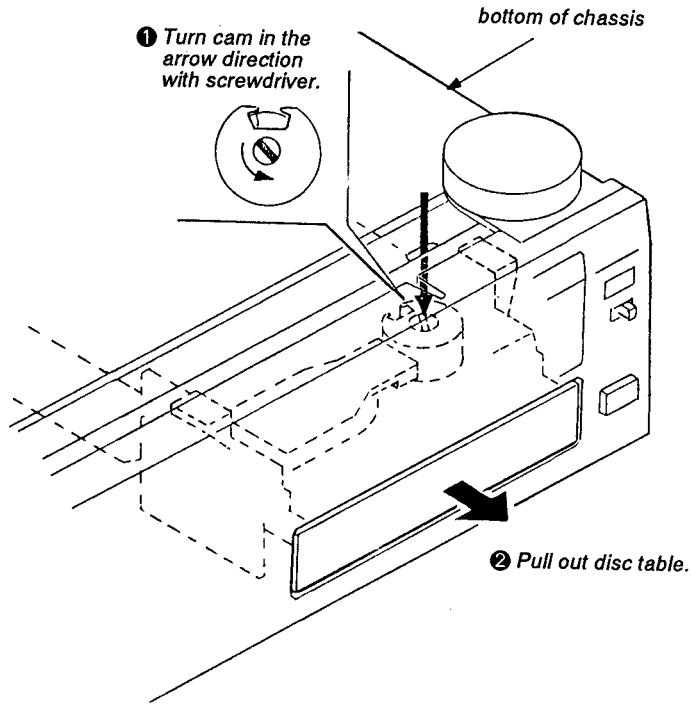
Refer to the pages indicated in ( ) for details.

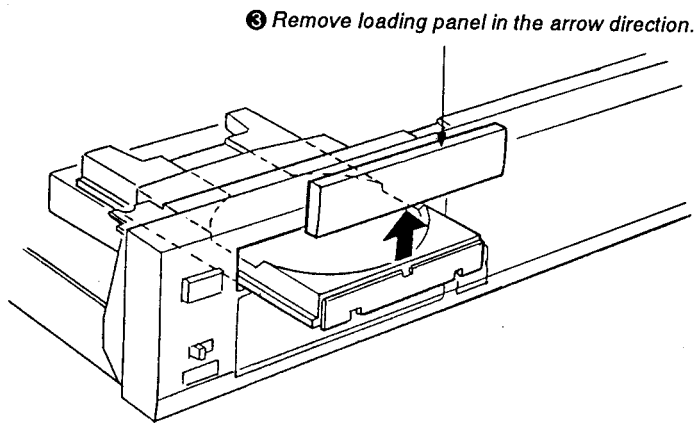
1. ⏏ OPEN/CLOSE button (22)
2. DISPLAY MODE button (24)
3. MUSIC SCAN button (44)
4. Numeric buttons (26)
5. CLEAR button (42, 52)
   CHECK button (52)
6. DSP SELECT button (32)
   FLAT button (36)
7. FADER (fade in/fade out) button (78)
8. ◀◀ ▶▶(manual search) buttons (28)
9. LINE OUT LEVEL (line out/headphones level) buttons (22)
10. ◀◀ ▶▶ SLOW (low speed manual search) buttons (28)
11. — — INDEX buttons (28)
12. ⏮⏮ ⏭⏭ AMS* buttons (26)
13. ■ (stop) button (22)
    ⏸ (pause) button (22)
    ▶ (play) button (22)
14. REPEAT (repeat/A-B repeat clear) button (48)
    A ↔ B repeat button (50)
15. A. SPACE (auto space)/A.CUE (auto cue) button (30, 78)
16. TIME button (24)
17. > 20 (over 20) button (26)
18. PLAY MODE buttons
    CONTINUE button (22)
    SHUFFLE button (38)
    PROGRAM button (52)

* AMS is the abbreviation of Automatic Music Sensor.

SECTION 2
DISASSEMBLY

- When removing the front panel assembly on electric power failure, first open the loading block by turning cam with a screwdriver as shown in the figure, next pull out the loading block with hand, and remove the loading panel as shown in the figure. Then remove the front panel assembly.



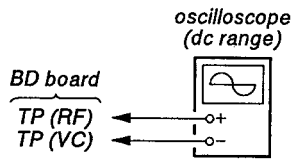


SECTION 3
ELECTRICAL CHECKS

1. Perform adjustments in the order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than 10 MΩ impedance.

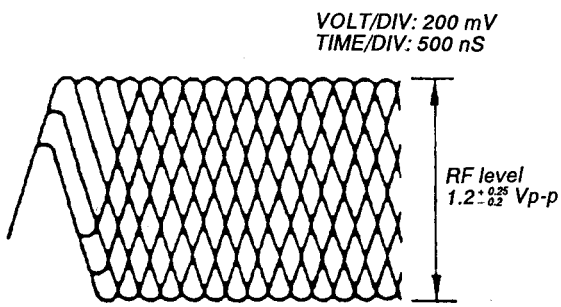
RF LEVEL Check

Procedure:



1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
2. Turn POWER switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that RF level and eye pattern is optimum.
   Optimum eye pattern means that shape "◇" can be clearly distinguished at the center of the waveform.

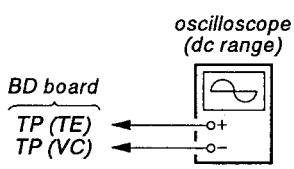
RF Signal Reference Waveform (eye pattern)



REFERENCE

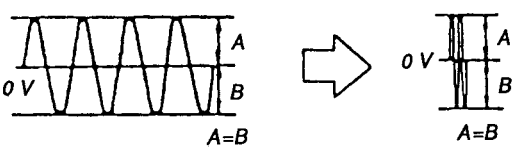
E-F Balance Check

Procedure:



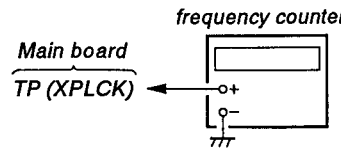
1. Connect test point TP (ADJ) to ground and TP (TEI) to VC with lead wires.
2. Connect oscilloscope to test point TP (TE).
3. Turn POWER switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0 V.
6. After check, remove the lead wires connected in step 1.

Note: Take sweep time as long as possible to obtain best waveform.



RF PLL Free-run Frequency Check

Procedure:



1. Turn POWER switch on.
2. Put disc (YEDS-18) in and playback.
3. Confirm that reading on frequency counter is 4.3218 MHz.

Focus/Tracking Gain Check

Focus/tracking gain determines the pick-up follow-up (vertical and horizontal) relative to mechanical noise and mechanical shock when the 2-axis device operate.
However, as these reciprocate, the microcomputer adjusts automatically at the point where both are satisfied.

- When gain is raised, the noise when the 2-axis device operates increases.
- When gain is lowered, mechanical shock and skipping occurs more easily.

When gain adjustment is off, the symptoms below appear.

Gain / Symptoms	Focus	Tracking
• The time until music starts becomes longer for STOP ➡ ▶ PLAY or automatic selection (⏮ , ⏭ buttons pressed). (Normally takes about 2 seconds.)	low	low or high
• Music does not start and disc continues to rotate for STOP ➡ ▶ PLAY or automatic selection (⏮ , ⏭ buttons pressed).	—	low
• Sound is interrupted during PLAY. Or time counter display stops progressing.	—	low
• Noise increases during 2-axis device operation.	high	high

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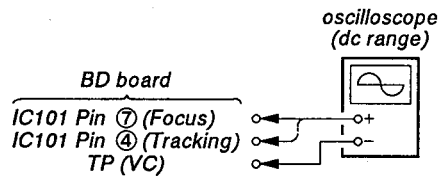
Focus Gain Check

1. Keep the set horizontal.
   (If the set is not horizontal, this adjustment cannot be performed due to the gravity against the 2-axis device.)
2. Insert disc (YEDS-18: Fifth track) and press ▷ PLAY button.
3. Connect oscilloscope to Pin ⑦ of IC101 on BD board.
4. Confirm the waveform is as shown in the figure below.

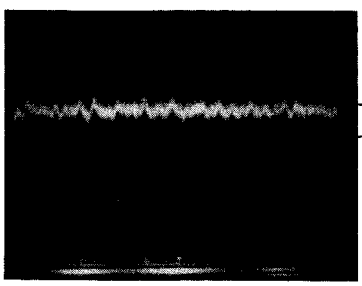
Tracking Gain Check

1. Connect oscilloscope to Pin ④ of IC101 on BD board.
2. Confirm the waveform is as shown the figure below.



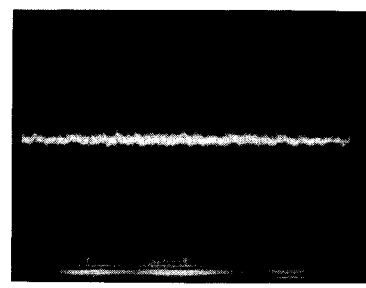
Normal

VOLT/DIV : 100 mV
TIME/DIV : 2 mS



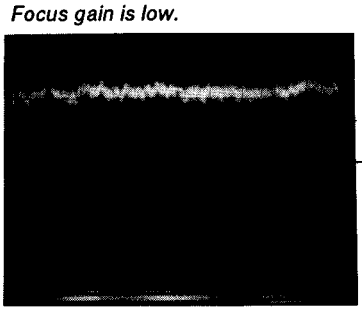
Normal

VOLT/DIV : 500 mV
TIME/DIV : 2 mS



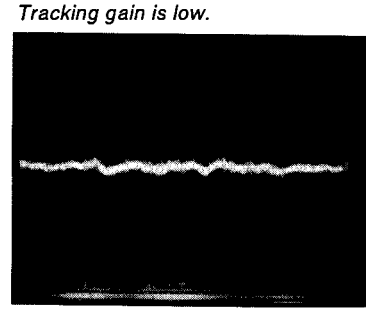
Focus gain is low.

VOLT/DIV : 100 mV
TIME/DIV : 2 mS



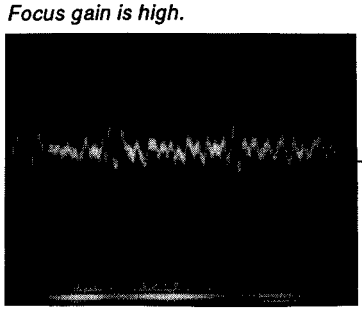
Tracking gain is low.

VOLT/DIV : 500 mV
TIME/DIV : 2 mS



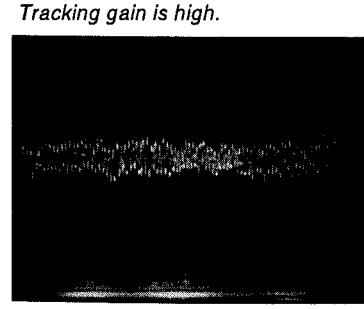
Focus gain is high.

VOLT/DIV : 100 mV
TIME/DIV : 2 mS



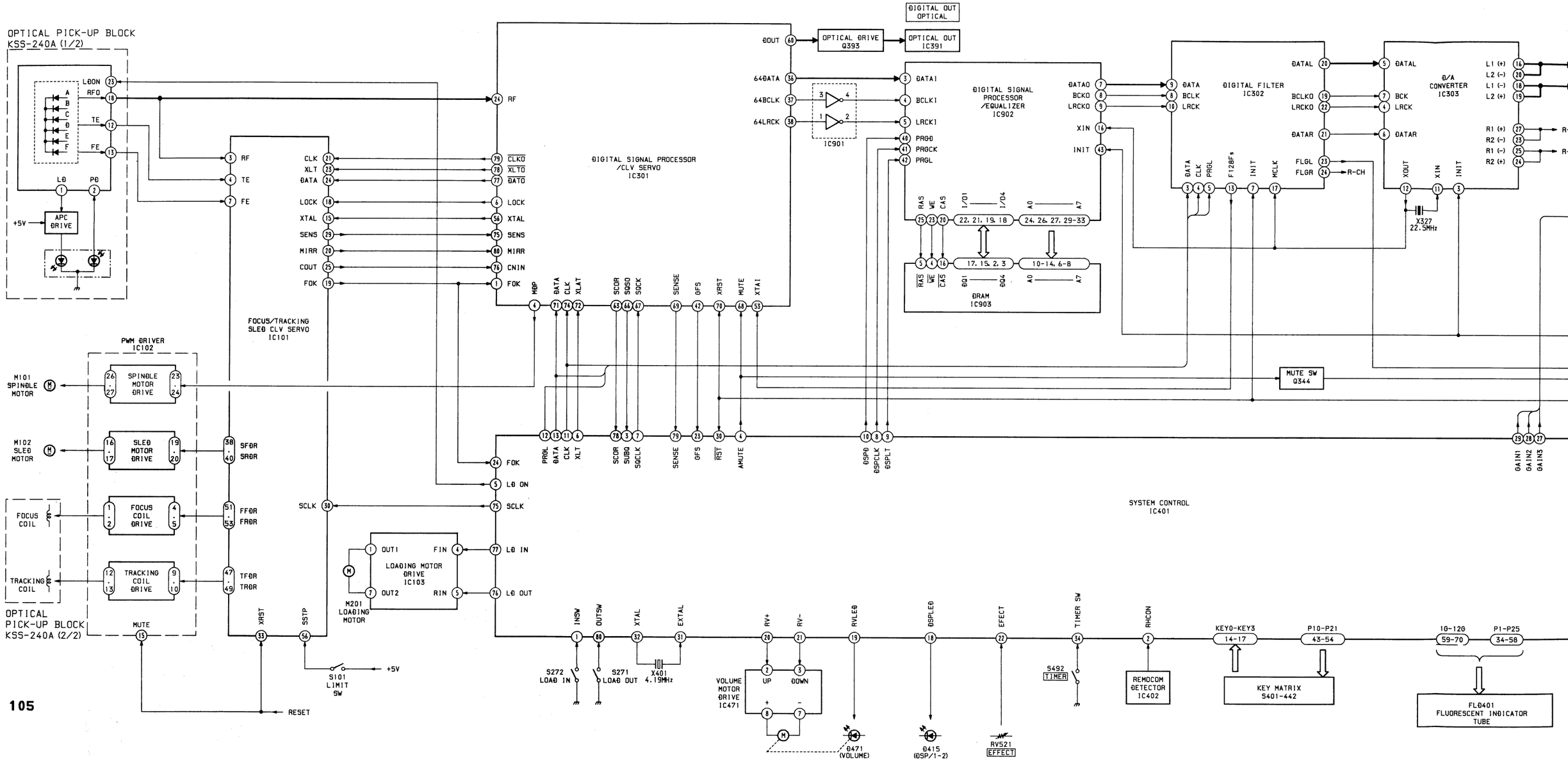
Tracking gain is high.

VOLT/DIV : 500 mV
TIME/DIV : 2 mS



SECTION 4
DIAGRAMS

4-1. BLOCK DIAGRAM



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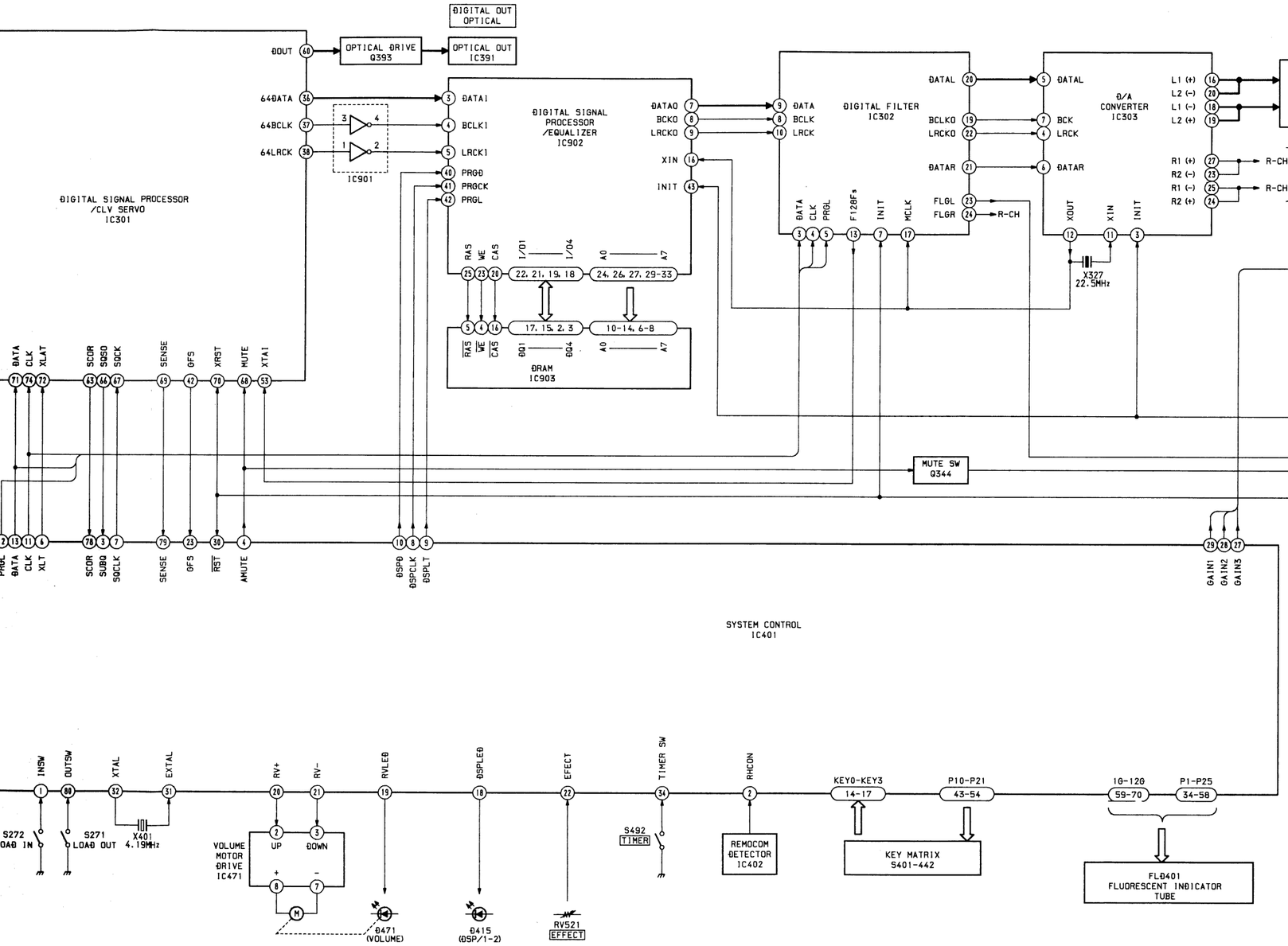
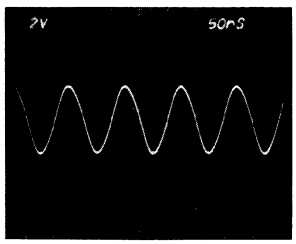
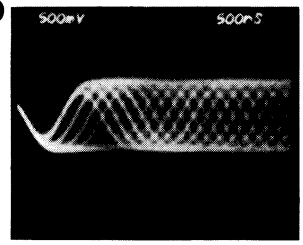
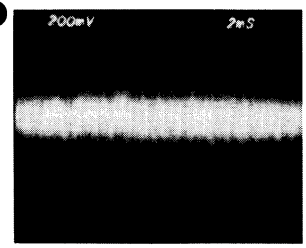
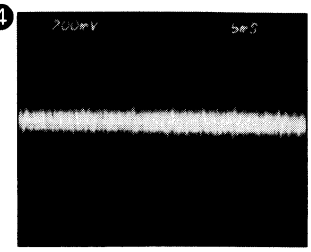
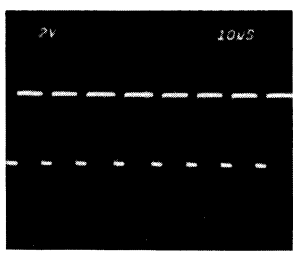
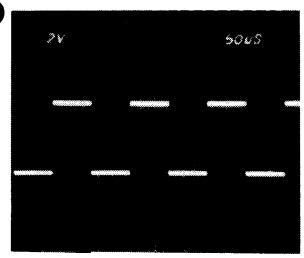
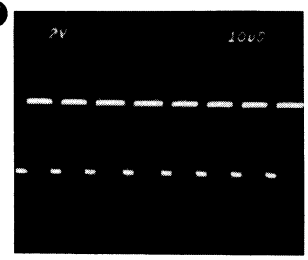
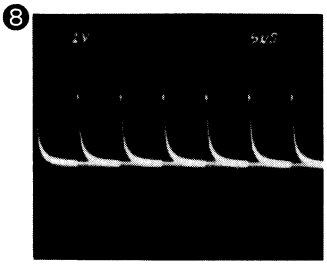
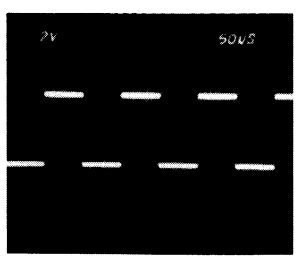
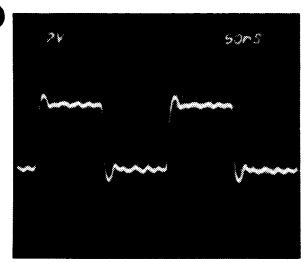
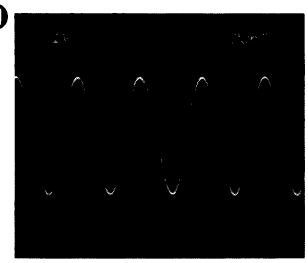
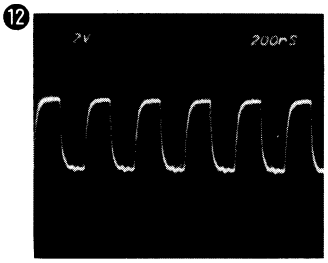
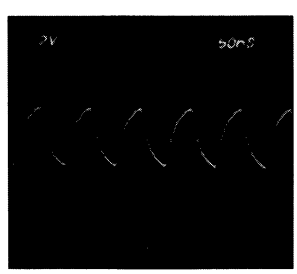
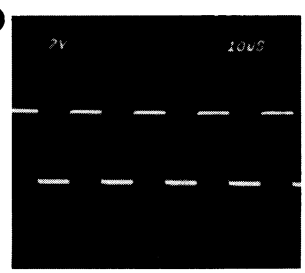
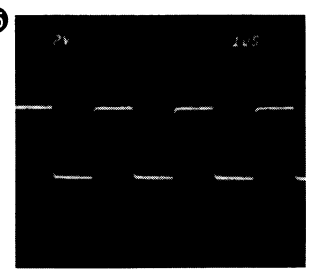

DIGITAL OUT OPTICAL
DOUT
OPTICAL DRIVE Q393
OPTICAL OUT IC391
64DATA
64BCLK
64LRCK
IC901
DIGITAL SIGNAL PROCESSOR /CLV SERVO IC301
DIGITAL SIGNAL PROCESSOR /EQUALIZER IC902
DATAI
BCLKI
LRCKI
PRGD
PRGCK
PRGL
DATAO
BCKO
LRCKO
XIN
INIT
DRAM IC903
RAS
WE
CAS
I/O1
I/O4
A0
A7
22, 21, 19, 18
24, 26, 27, 29-33
17, 15, 2, 3
10-14, 6-8
DIGITAL FILTER IC302
DATA
BCLK
LRCK
F128Fs
MCLK
FLGL
FLGR
D/A CONVERTER IC303
DATAL
BCK
DATAR
XOUT
X327 22.5MHz
L1 (+)
L2 (-)
L1 (-)
L2 (+)
R1 (+)
R2 (-)
R1 (-)
R2 (+)
R-CH
SAME AS L-CH
AUDIO AMP IC306, 307
GAIN AMP IC904
GAIN CONTROL Q919, 921, 923
GAIN SW Q912-914
MUTING Q372, 374
MUTE SW Q343
MUTING Q376
MUTE SW Q341
J381
FIXED
LINE OUT
VARIABLE
RV451-1
PHONE LEVEL LINE OUT
HEADPHONE AMP IC451
J511
PHONES
MUTE SW Q344
IC901
S491-2
POWER
FL TUBE
F1
F2
+5V
-30V
-10V
-30V REG IC201
REG SW Q201
OUT
ON/OFF
IN
D201
D209
MUTE +5V
D/A +5V
D/A REG IC203, Q209
+7V
+7V REG IC204
+10V
+5V
+5V REG Q203
D203-206
AC IN
PT1
POWER TRANSFORMER
RESET
RESET SW Q206
RESET SW Q204, 205
RST
SW
EO-
CO+
REG IC202
-5V
-5V REG Q202
S491-1
POWER
PRGL
DATA
CLK
XLT
SCOR
SUBQ
SQCLK
SENSE
GFS
RST
MUTE
XTAI
DSPD
DSPCLK
DSPLT
GAIN1
GAIN2
GAIN3
SYSTEM CONTROL IC401
INSW
OUTSW
XTAL
EXTAL
S272
LOAD IN
S271
LOAD OUT
X401
4.19MHz
RV+
RV-
VOLUME MOTOR DRIVE IC471
UP
DOWN
RVLED
DSPLED
EFECT
TIMER SW
S492
TIMER
RMCON
REMOCOM DETECTOR IC402
KEY0-KEY3
14-17
KEY MATRIX S401-442
P10-P21
43-54
I0-I20
59-70
P1-P25
34-58
FLD401
FLUORESCENT INDICATOR TUBE
D471
(VOLUME)
D415
(DSP/1-2)
RV521
EFFECT

• **Waveforms**

❶  IC401 pin ㉛ EXTAL	❷  IC101 pin ③ RF PLAY IC301 pin ㉔ RF PLAY	❸  IC101 pin ④ TE PLAY	❹  IC101 pin ⑦ FE PLAY
❺  IC301 pin ⑭ CLK PLAY	❻  IC301 pin ㊷ WFCK	❼  IC301 pin ⑲ CLKO PLAY	❽  IC301 pin ④ MDP PLAY
❾  IC301 pin ㊸ RF CK	❿  IC301 pin ㊶ XPLCK PLAY	⓫  IC303 pin ⑫ X. OUT	⓬  IC302 pin ⑧ BCLK
⓭  IC303 pin ⑦ BCK	⓮  IC302 pin ⑩ LRCK	⓯  IC303 pin ④ LRCK	

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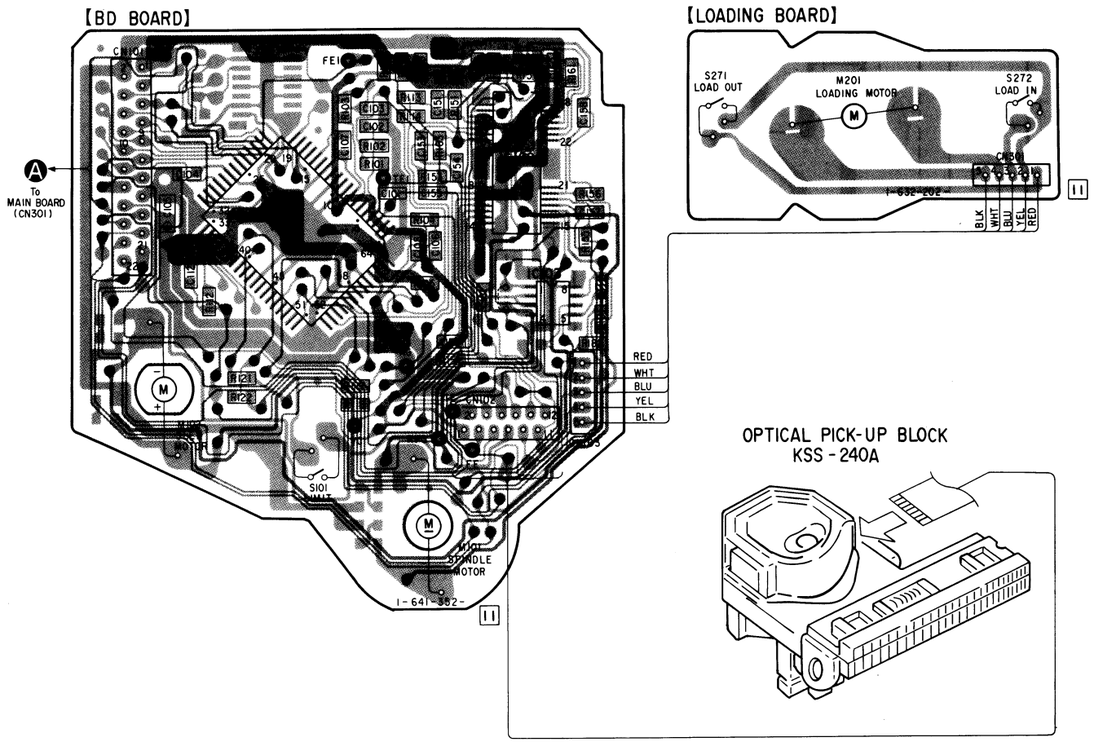
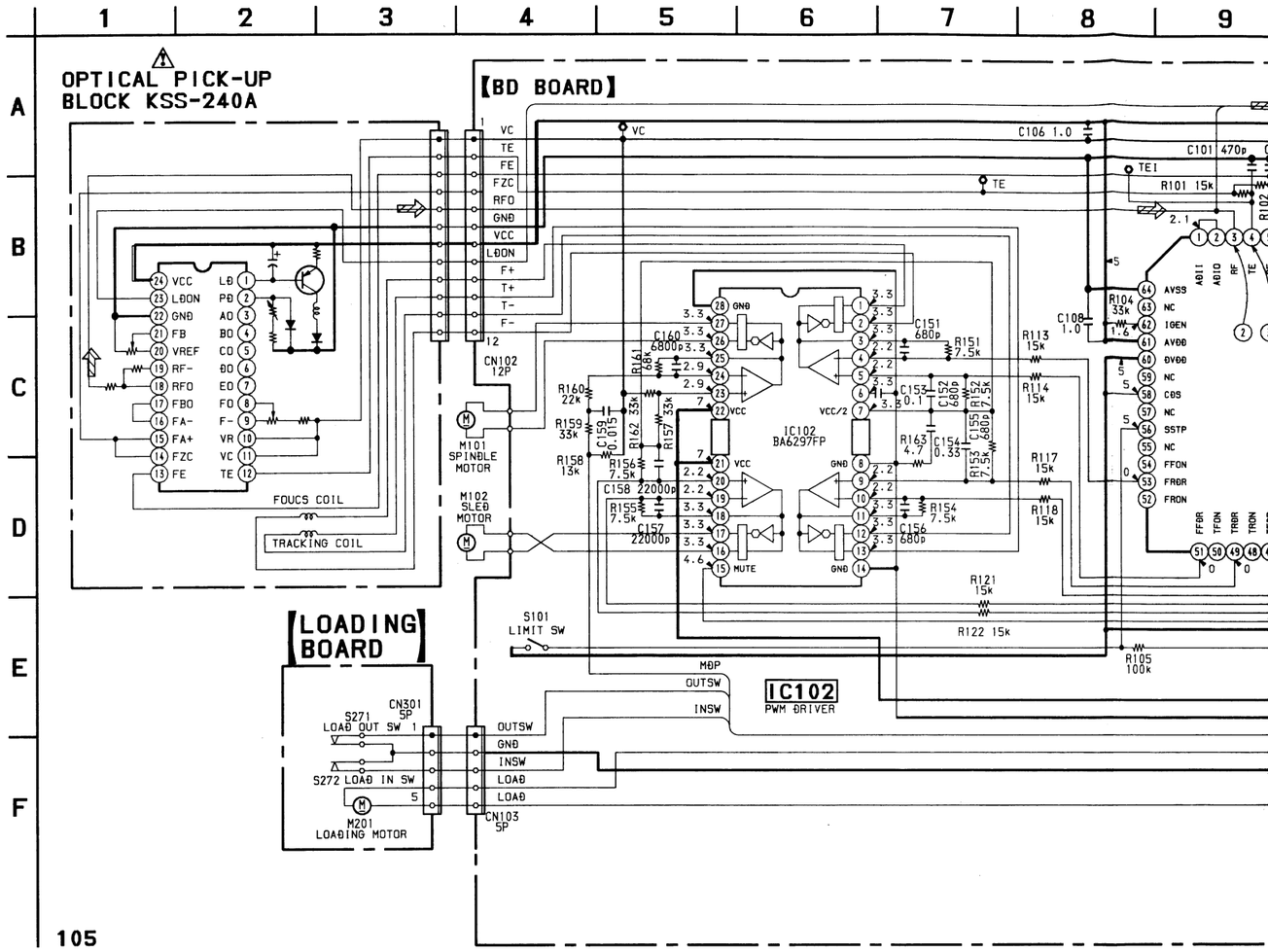
4-2. BD SECTION PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAM





105

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- ▬▬ : B + Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to wavefroms.
- Signal path.
  ⇨ : CD

Note on Printed Wiring Board:

- o—— : parts extracted from the component side.
- ● : Through hole.
- ▒▒ : Pattern on the side which is seen.
- ▒▒ : Pattern of the rear side.

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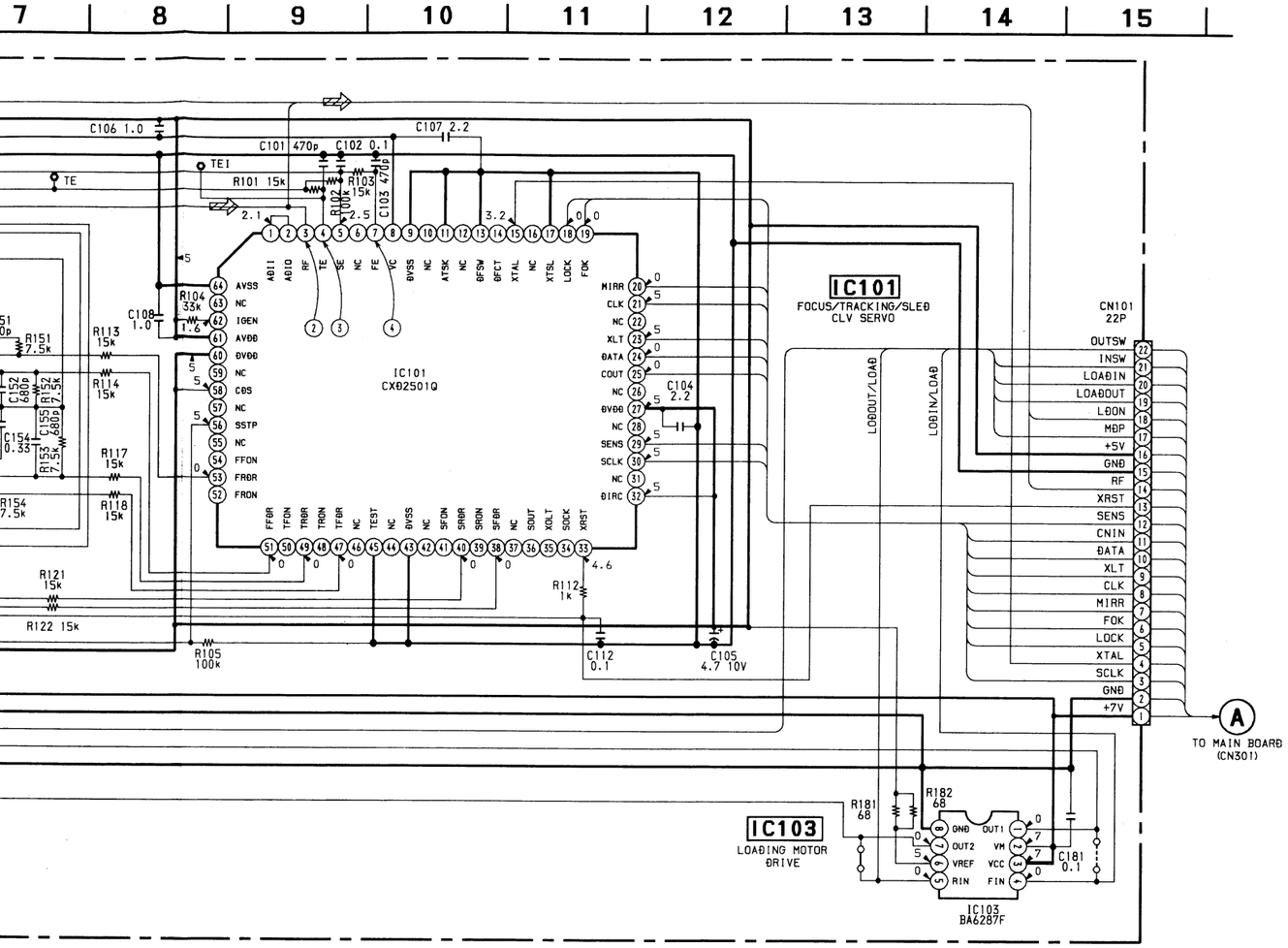

MEMO

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4-3. MAIN SECTION PRINTED WIRING BOARDS

Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- △ : internal component.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	**Note:** Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

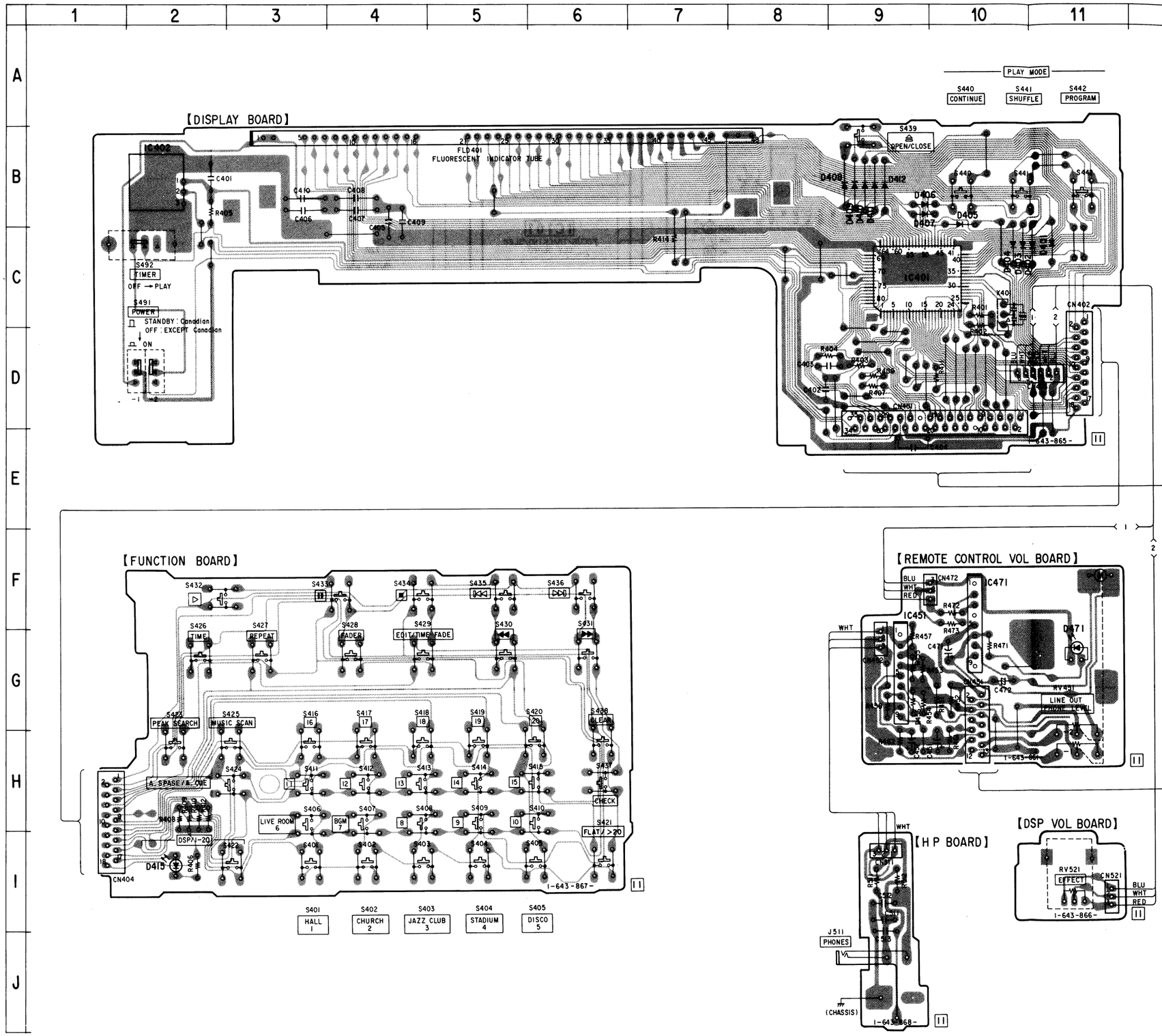
- ▬▬ : B + Line.
- ▬ ▬ ▬ : B − Line.
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
- Voltages are taken with a VOM (Input impedance 10 MΩ).
  Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to wavefroms.
- Signal path.
  ⇨ : CD
  ⇨ : digital out

Note on Printed Wiring Board:

- o——— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D201	E-19	IC402	B-2
D202	F-19	IC451	F-9
D203	E-18	IC471	F-10
D204	E-18	IC901	G-16
D205	E-18	IC902	H-15
D206	E-18	IC903	H-14
D208	F-17	IC904	C-15
D209	F-17		
D328	F-14	Q201	F-19
D344	H-14	Q202	H-18
D401	C-11	Q203	F-18
D402	C-10	Q204	G-19
D403	C-10	Q205	G-18
D404	C-10	Q206	G-18
D405	B-10	Q209	F-16
D406	B-9	Q341	E-13
D407	B-9	Q342	E-13
D408	B-9	Q343	E-13
D409	B-9	Q344	G-13
D410	B-9	Q371	B-14
D411	B-9	Q372	C-16
D412	B-9	Q373	B-14
D415	I-2	Q374	C-16
D471	F-11	Q375	B-14
		Q376	B-16
IC201	F-19	Q393	B-14
IC202	G-18	Q912	D-13
IC203	G-16	Q913	D-13
IC204	F-18	Q914	D-13
IC301	I-17	Q919	C-14
IC302	G-15	Q920	D-16
IC303	F-15	Q921	C-14
IC306	D-15	Q922	D-16
IC307	C-15	Q923	C-14
IC391	A-14	Q924	C-16
IC401	C-9		



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10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23

PLAY MODE

S440 CONTINUE | S441 SHUFFLE | S442 PROGRAM

D405

CN402

-643-865-

TE CONTROL VOL BOARD】

CN472 C471 R472 R473 D471 R471 C472 RV491 LINE OUT LEVEL

-643-865-

BOARD】

【DSP VOL BOARD】

RV521 EFFECT CN521 BLU WHT RED

-643-866-

【MAIN BOARD】

J381 LINE OUT FIXED VARIABLE -1 -2 -3 -4 L R

IC391 DIGITAL OUT OPTICAL

(CHASSIS)

IC901 IC902 IC903 IC301 IC302

(XPCLK) (MNT2) (MNT3) (MNT1) (MNT0) (WFCK) (MUTE) (RST) (RFCK) (MDI) (MDO)

CN302

-641-496-

EXCEPT E MODEL

CN201 AC IN

PT1 POWER TRANSFORMER

C225 C226 C227 C224 C220 C223 C221

(CHASSIS)

E MODEL

S201 VOLTAGE SELECTOR 110 — 120V ⟶ 220 — 240V

CN201 AC IN

PT1 POWER TRANSFORMER

C225 C226 C227 C224 C220 C223 C221

(CHASSIS)

PT1 POWER TRANSFORMER

2 3 4 14 13 12 11 10 9 8 7

EXCEPT E MODEL

PT1 POWER TRANSFORMER

1 2 3 4 5 14 13 12 11 10 9 8 7

E MODEL

A TO BD BOARD (CN101)

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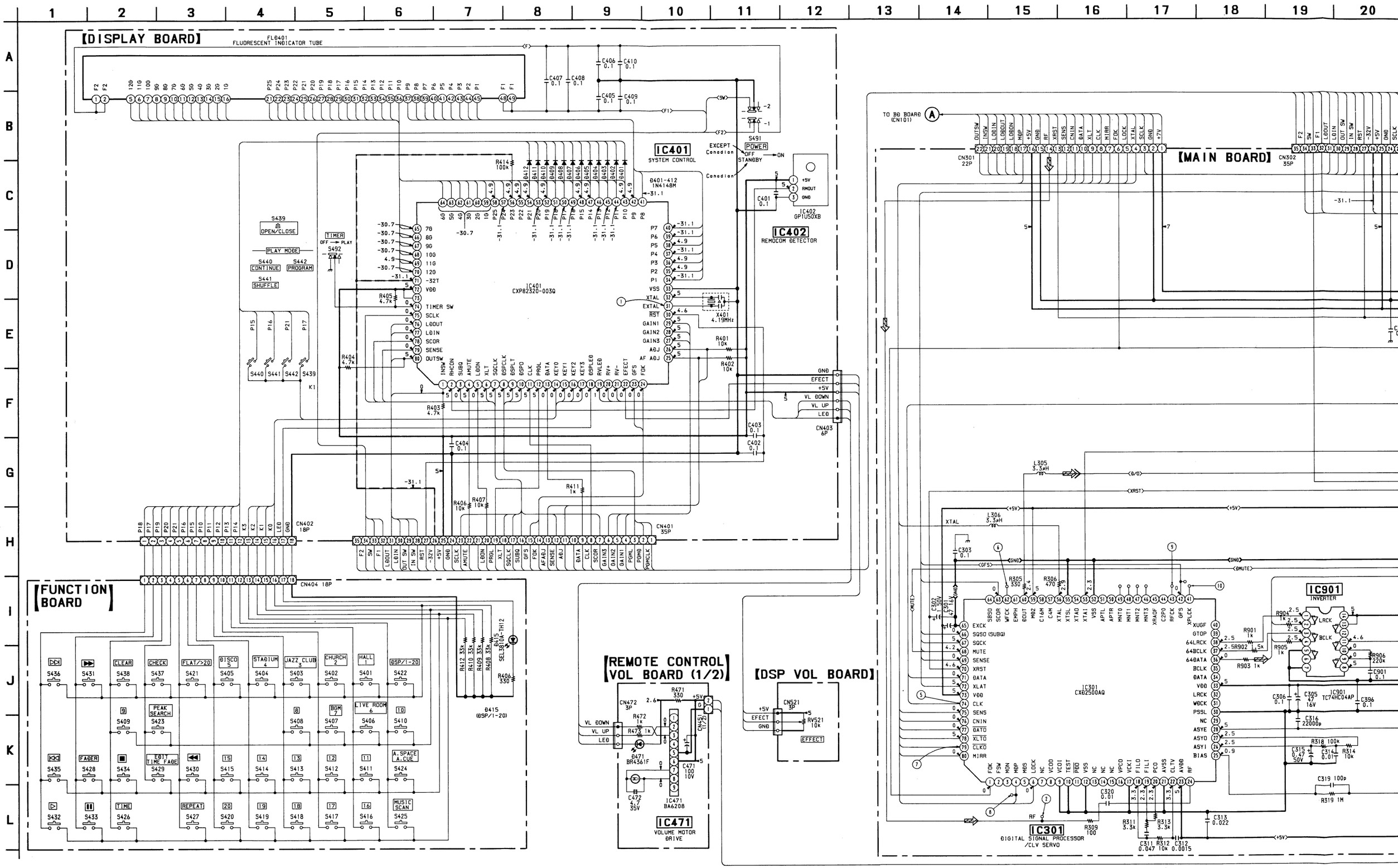

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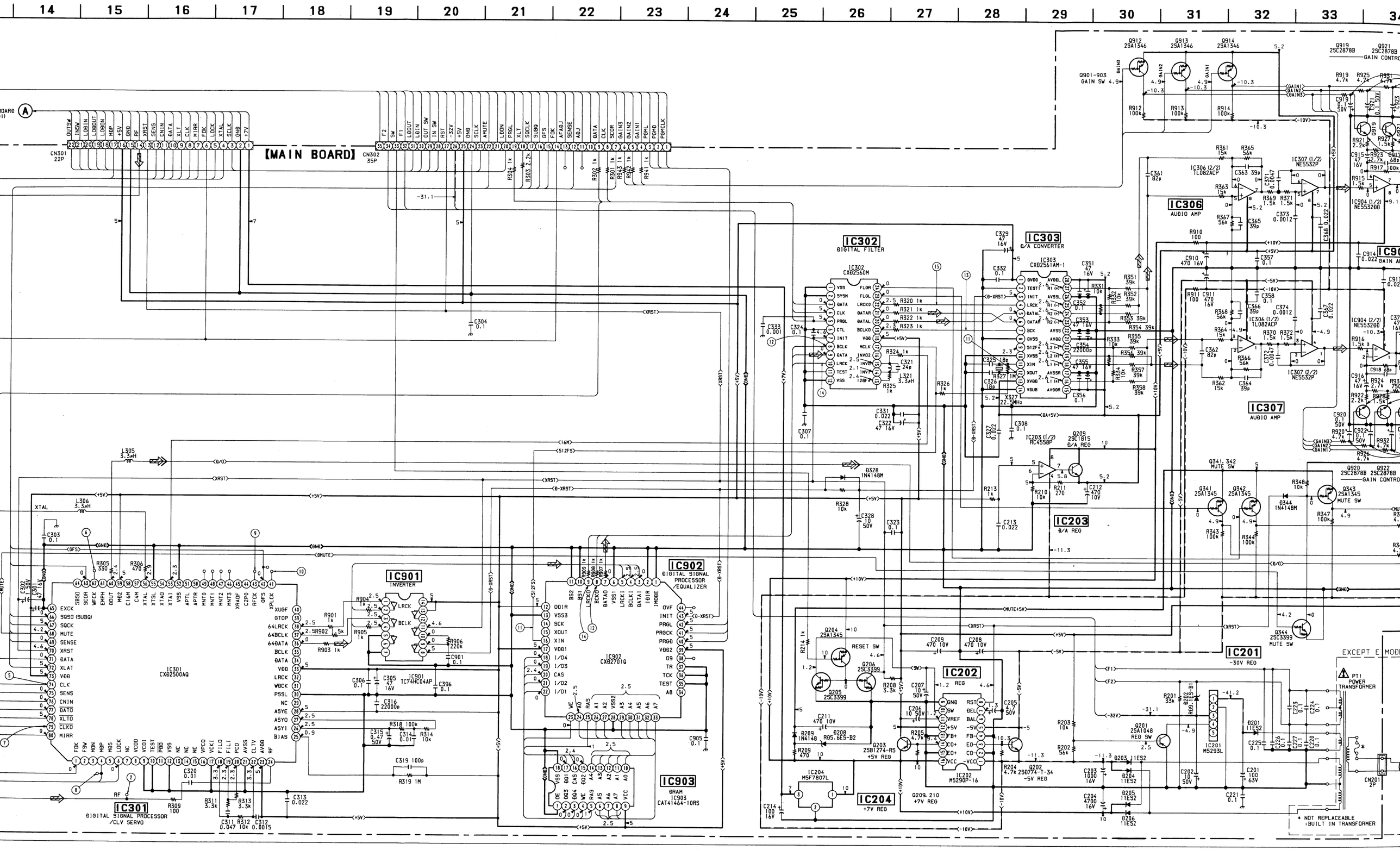

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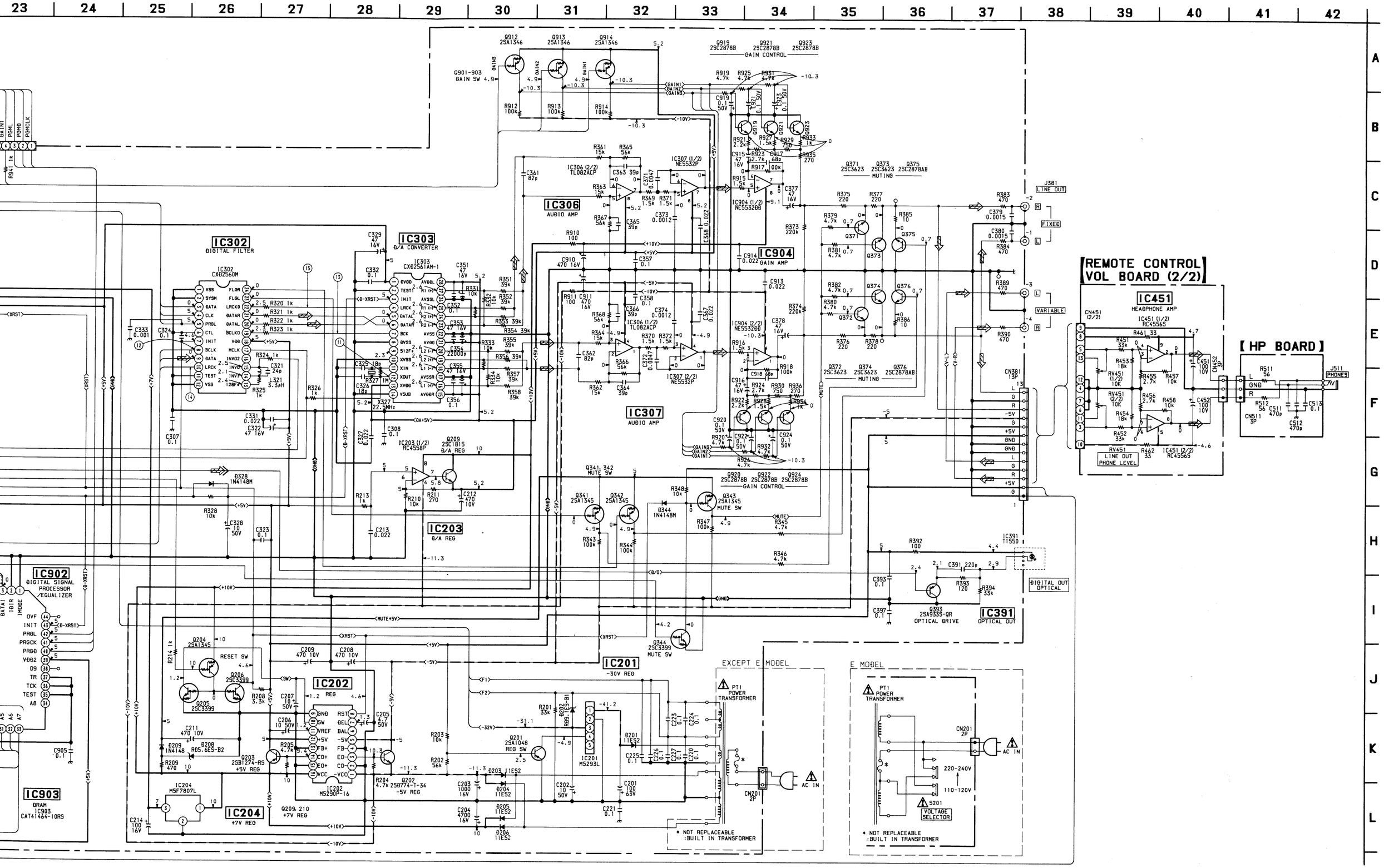

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• Semiconductor Lead Layouts

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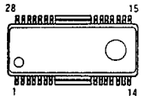
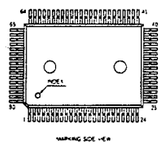
RC4556S

BA6297AFP



CXD2500AQ
CXP82320-003Q



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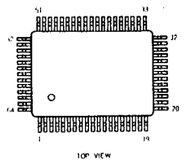

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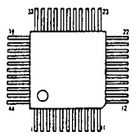

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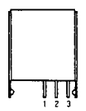

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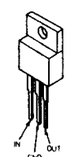

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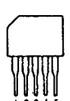

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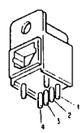

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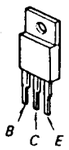

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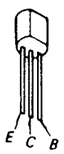

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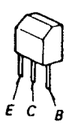

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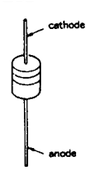
RD9.1ES-L
11ES2



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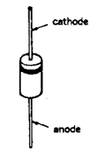

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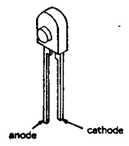

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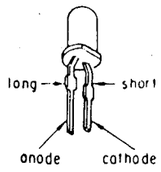
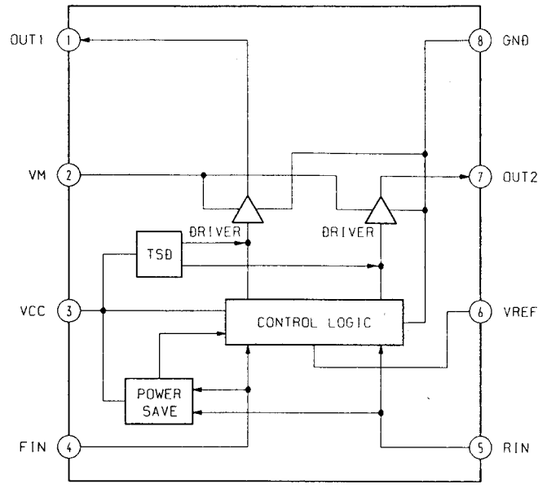


• IC Block Diagrams

IC103 BA6287F



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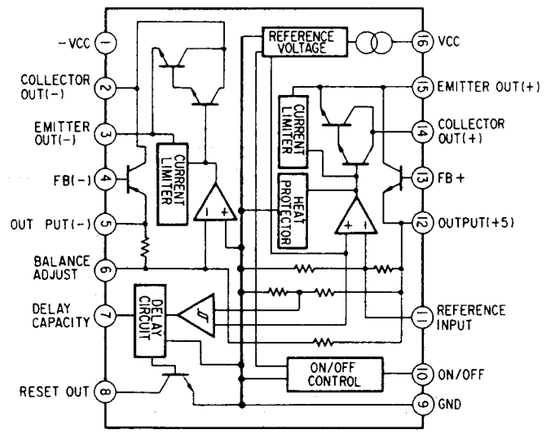

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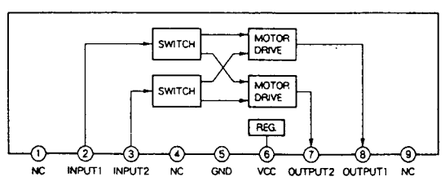

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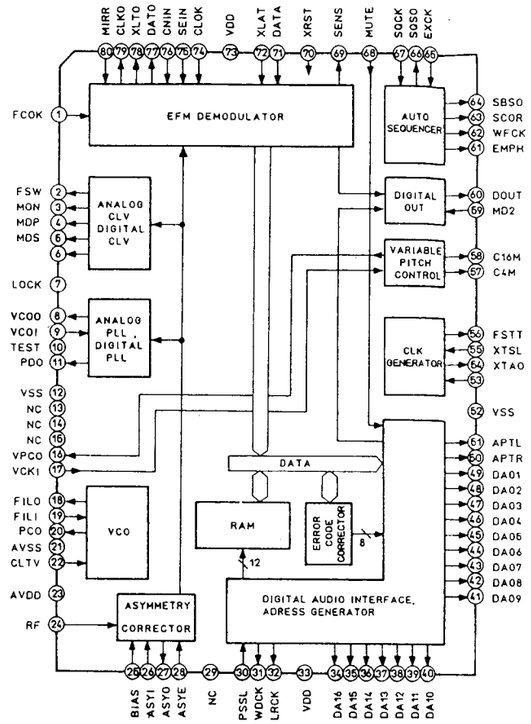

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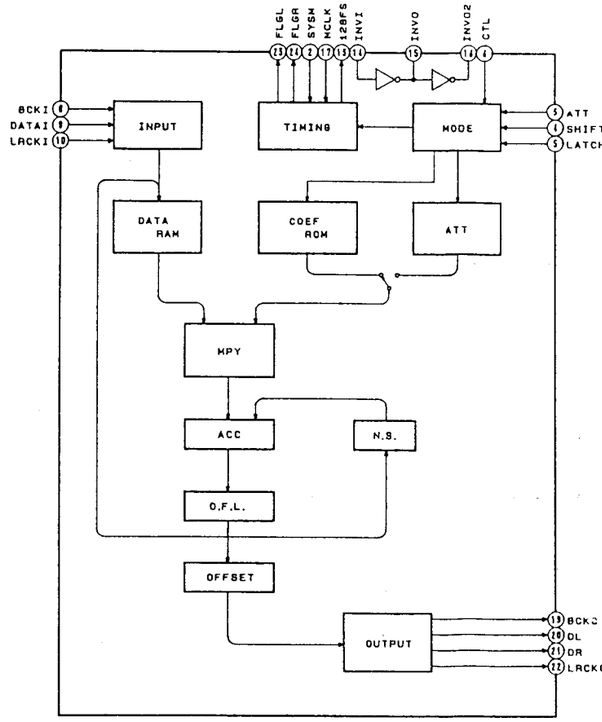

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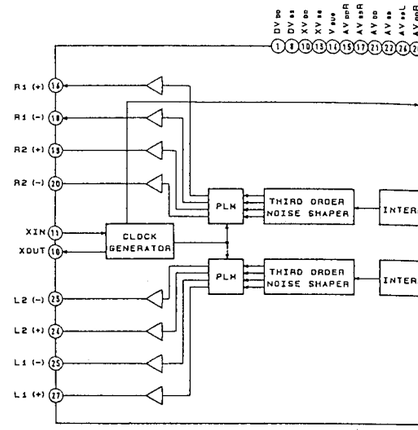

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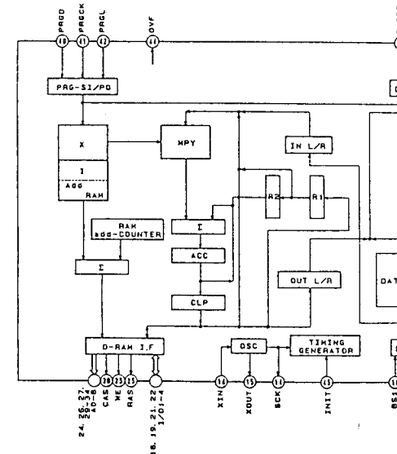
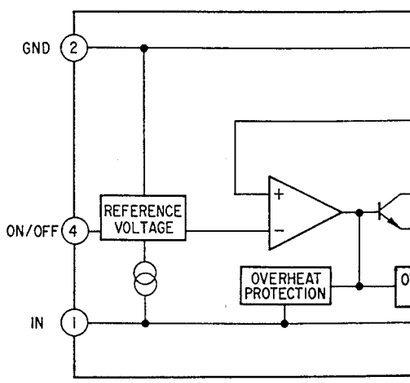


IC201 M5293L



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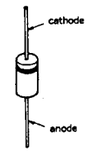
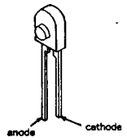
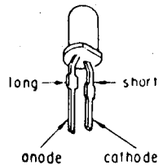
1N4148M



BR4361F

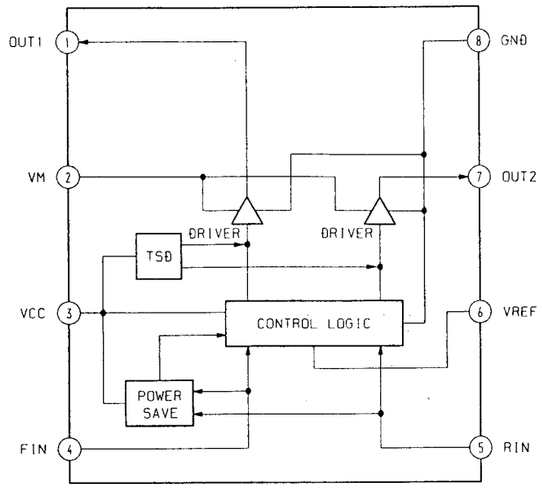


SEL3810A-CD

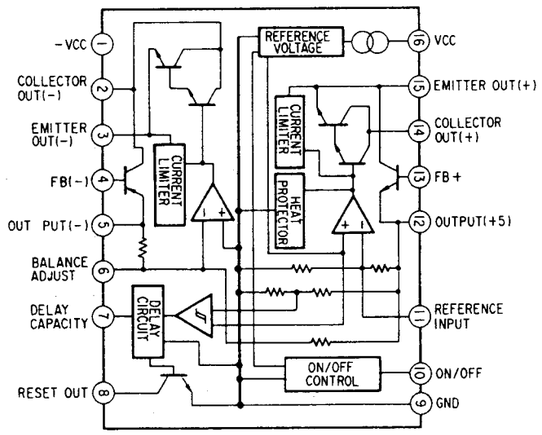


• IC Block Diagrams

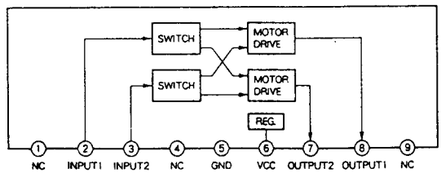
IC103 BA6287F



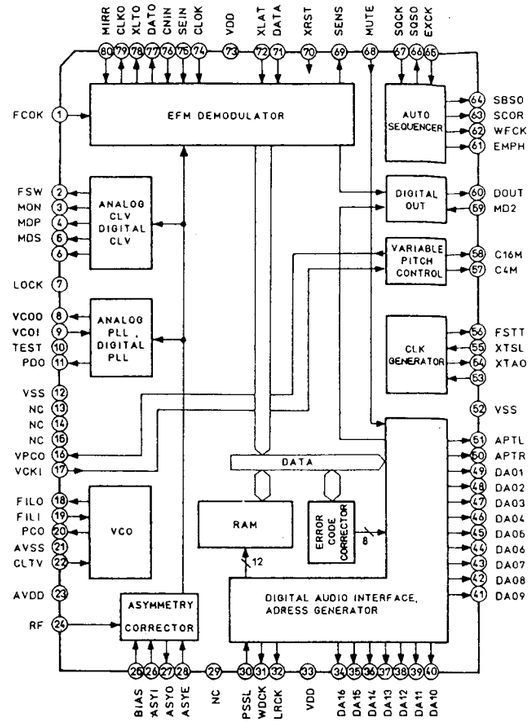
IC202 M5290P-16



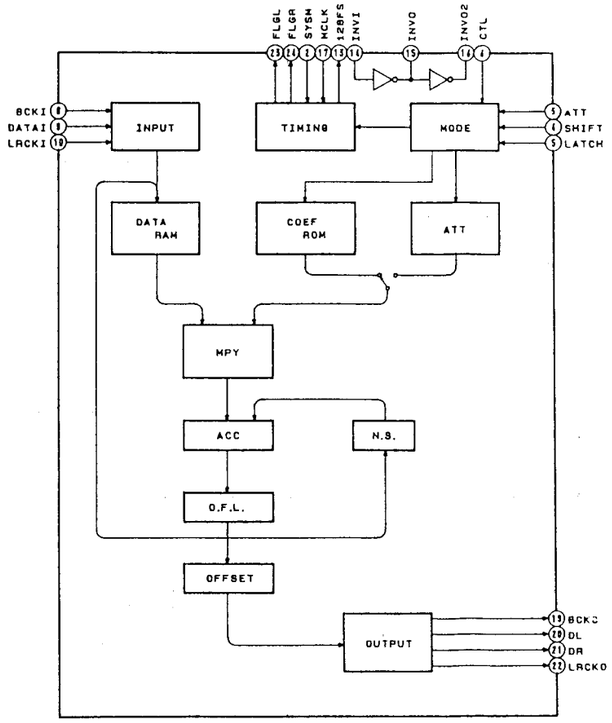
IC471 BA6208



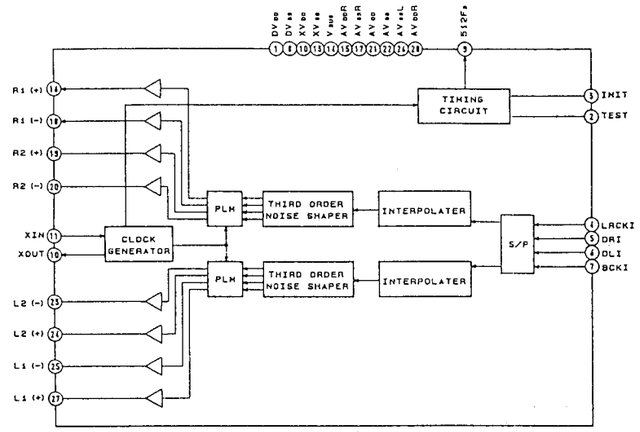
IC301 CXD2500AQ



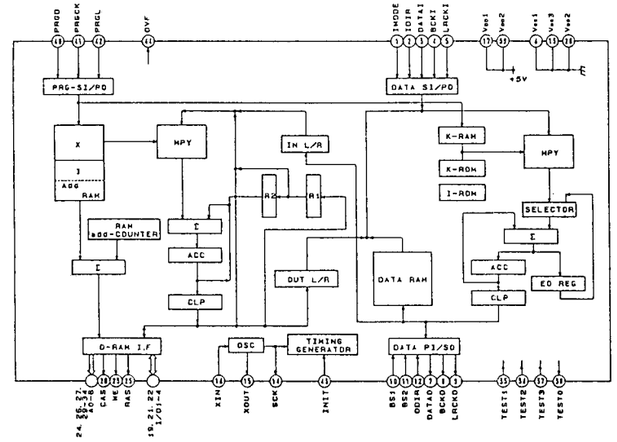
IC302 CXD2560M



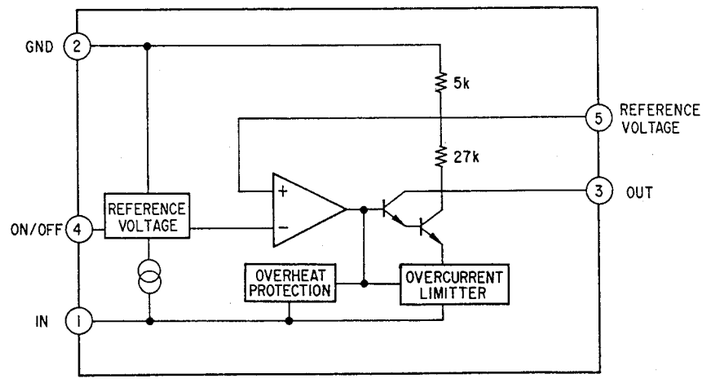
IC303 CXD2561AM-1



IC902 CXD2701Q



IC201 M5293L



SECTION 5
EXPLODED VIEWS

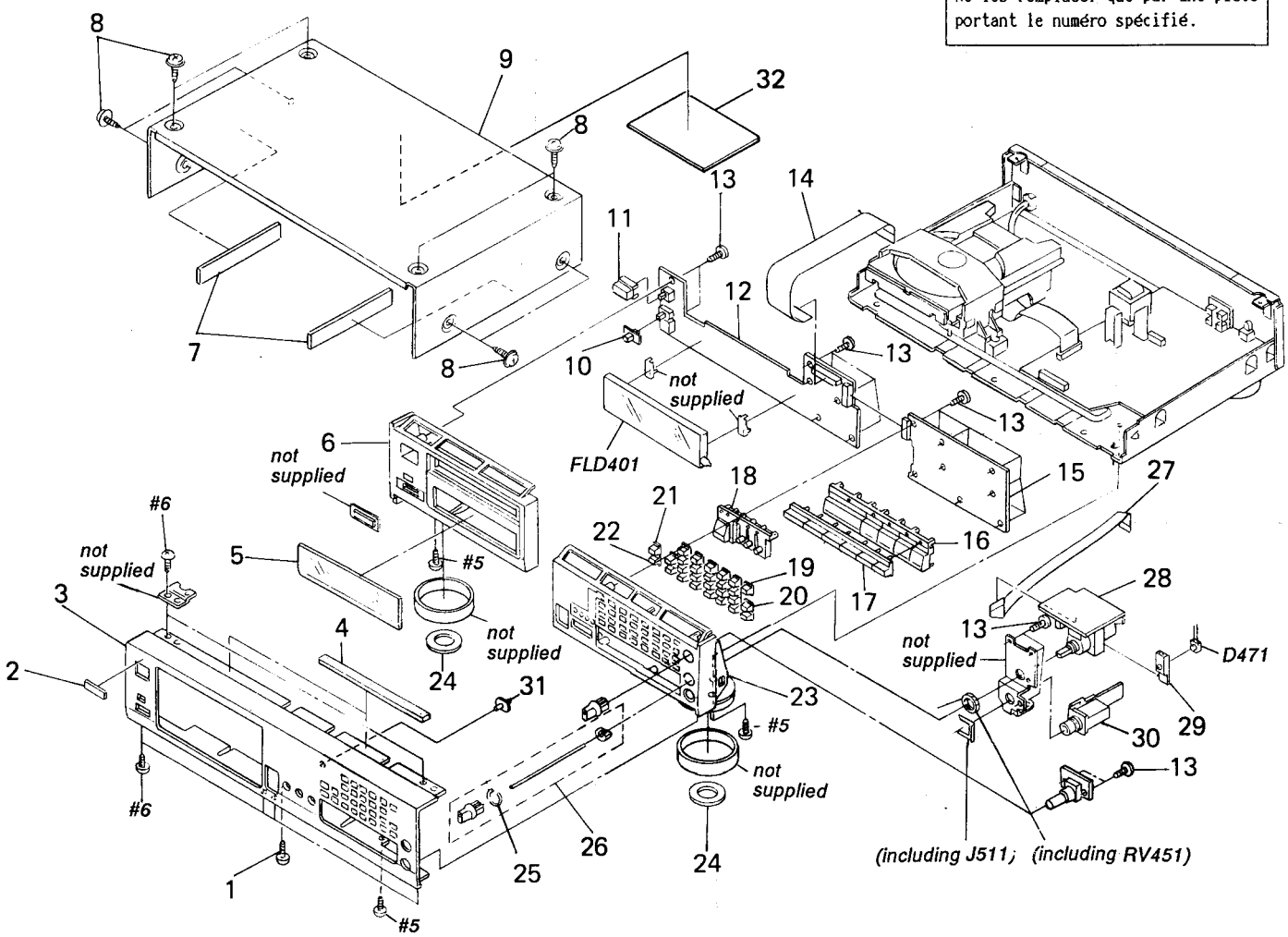
NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

(1) FRONT PANEL ASS'Y AND CASE SECTION



Ref. No.	Part No.	Description	Remark
1	3-703-685-21	SCREW (+BV 3X8)	
2	4-908-848-01	EMBLEM, SONY	
3	4-949-195-01	PANEL (FRONT) (AEP, E, AUS)	
3	4-949-195-11	PANEL (FRONT) (CND)	
* 4	4-929-557-01	CUSHION (PANEL)	
5	4-949-193-01	PLATE, INDICATION	
6	X-4942-163-1	PANEL (BASE) (L) ASSY (AEP, E, AUS)	
6	X-4942-165-1	PANEL (BASE) (L) ASSY (CND)	
* 7	4-929-561-01	CUSHION (CASE)	
8	3-704-366-01	SCREW (CASE) (M3X8)	
9	4-929-529-01	CASE	
10	4-922-518-11	KNOB (TIMER)	
11	4-947-034-03	BUTTON (POWER)	
* 12	A-4649-137-A	DISP BOARD, COMPLETE	
13	4-951-620-01	SCREW (2.6X8), +BVTP	
14	1-690-923-11	WIRE (FLAT TYPE) (35 CORE)	
* 15	1-643-867-11	FUNCTION BOARD	
16	4-949-243-01	BUTTON (L)	

Ref. No.	Part No.	Description	Remark
17	4-947-582-11	BUTTON (S)	
18	4-949-191-01	BUTTON (O/C)	
19	4-947-574-01	BUTTON (MC1)	
20	4-947-575-01	BUTTON (MC2)	
20	4-947-576-01	BUTTON (MC3)	
21	4-947-577-01	BUTTON (MC4)	
23	X-4941-940-1	PANEL (BASE) (R) ASSY (AEP, E, AUS)	
23	X-4942-167-1	PANEL (BASE) (R) ASSY (CND)	
24	4-923-836-11	CUSHION	
25	4-948-469-01	SPRING, RING	
26	A-4604-901-A	KNOB (HP) ASSY	
27	1-690-392-11	WIRE, FLAT TYPE (13 CORE)	
* 28	1-643-864-11	REMOTE CONTROL VOL BOARD	
* 29	4-922-980-01	HOLDER (LED)	
* 30	1-643-868-11	HP BOARD	
31	4-951-617-01	INDICATOR	
* 32	4-922-943-01	DUMPER	
* 33	1-643-866-11	DSP VOL BOARD	
34	4-948-345-01	KNOB (VOL)	
D471	8-719-970-49	DIODE BR4361F	
FLD401	1-519-696-11	INDICATOR TUBE, FLUORESCENT	

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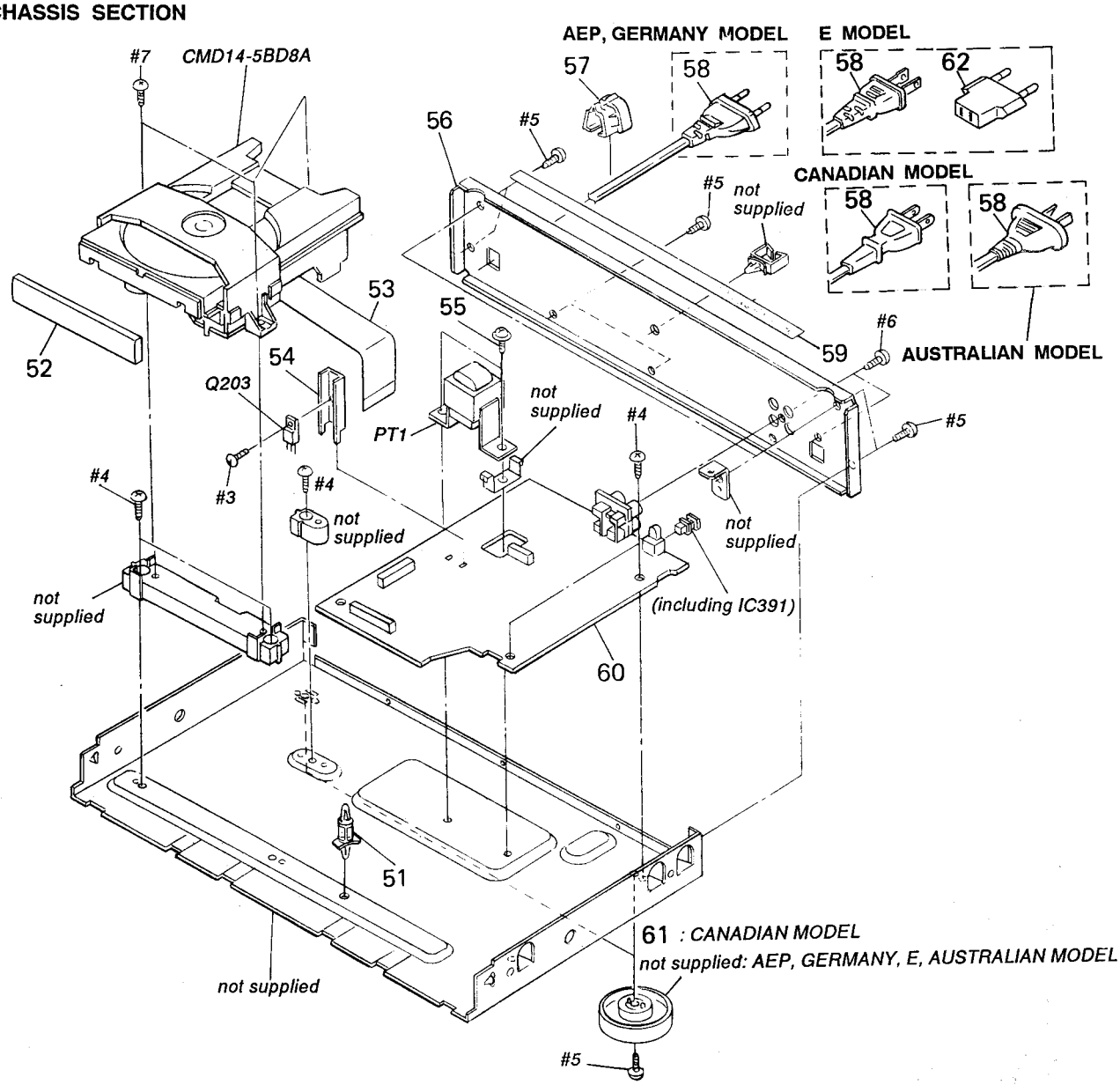
(2) CHASSIS SECTION

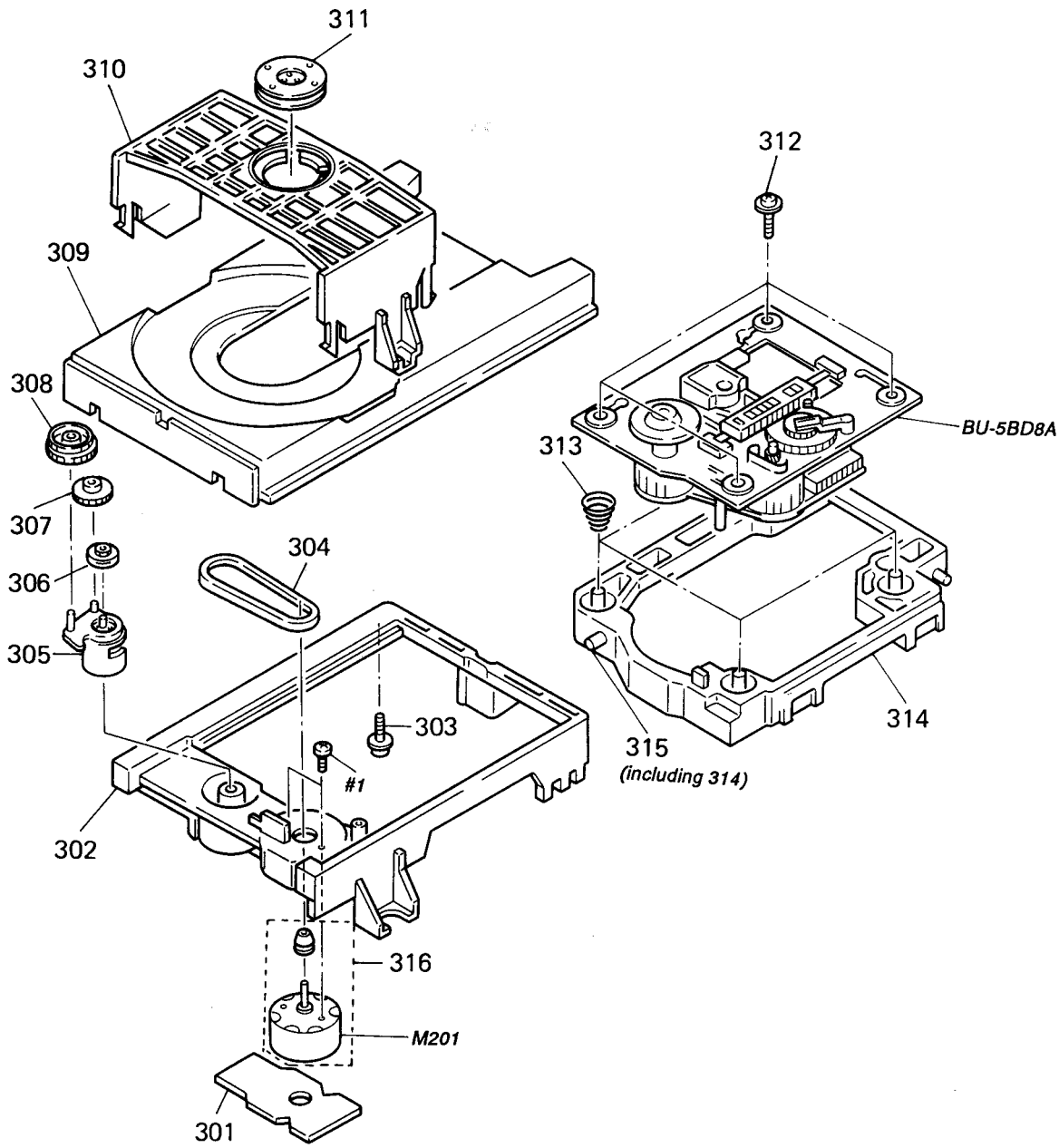


Ref. No.	Part No.	Description	Remark
* 51	4-924-098-01	HOLDER, PC BOARD	
52	4-947-167-01	PANEL, LOADING	
53	1-575-002-11	WIRE, FLAT TYPE (22 CORE)	
* 54	4-941-237-01	HEAT SINK	
55	4-886-821-11	SCREW, S TIGHT, +PTTWH 3X6	
* 56	4-949-176-01	PANEL, BACK (AEP)	
* 56	4-949-176-11	PANEL, BACK (AEP)	
* 56	4-949-176-21	PANEL, BACK (AUS)	
* 56	4-949-176-32	PANEL, BACK (CND)	
* 56	4-949-176-42	PANEL, BACK (E)	
* 57	3-703-244-00	BUSHING (2104), CORD (CND, AEP, AUS)	
* 57	3-703-571-11	BUSHING (S) (4516), CORD (E)	

Ref. No.	Part No.	Description	Remark
⚠58	1-558-943-41	CORD, POWER (E)	
⚠58	1-574-358-31	CORD, POWER (WITH CONNECTOR) (AUS)	
⚠58	1-575-651-21	CORD, POWER (AEP)	
⚠58	1-590-836-11	CORD, POWER (CND)	
* 59	4-927-653-01	SHEET (F/P)	
* 60	A-4649-140-A	MAIN BOARD, COMPLETE (CND, AEP, AUS)	
* 60	A-4649-253-A	MAIN BOARD, COMPLETE (E)	
61	4-943-148-32	FOOT (F58175SW) (CND)	
⚠62	1-569-007-11	ADAPTER, CONVERSION 2P (E)	
⚠PT1	1-449-921-11	TRANSFORMER, POWER (CND)	
⚠PT1	1-449-922-11	TRANSFORMER, POWER (AEP, AUS)	
⚠PT1	1-449-923-11	TRANSFORMER, POWER (E)	
Q203	8-729-141-83	TRANSISTOR 2SB1094-LK	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

(3) CD MECHANISM SECTION (CDM14-5BD8A)



	Part No.	Description	Remark
* 301	1-632-202-11	LOADING BOARD	
302	4-933-111-01	CHASSIS (MD)	
* 303	4-917-583-21	BRACKET, YOKE	
304	4-927-649-01	BELT	
305	4-933-109-01	CAM	
306	4-927-651-01	PULLEY (S)	
307	4-927-628-01	GEAR (C)	
308	4-933-107-01	GEAR (PL)	
309	4-933-112-01	TABLE, DISK	
310	4-933-110-01	HOLDER (MG)	

Ref. No.	Part No.	Description	Remark
* 311	1-452-538-11	MAGNET	
312	4-933-134-01	SCREW (+PTPWH M2.6X6)	
313	4-948-503-01	SPRING (BU), COMPRESSION	
314	4-933-129-04	HOLDER (BU)	
315	4-933-108-01	SHAFT (CAM)	
316	A-4604-363-A	MOTOR (L) ASSY	
M201	1-541-632-11	MOTOR, DC (LOADING)	

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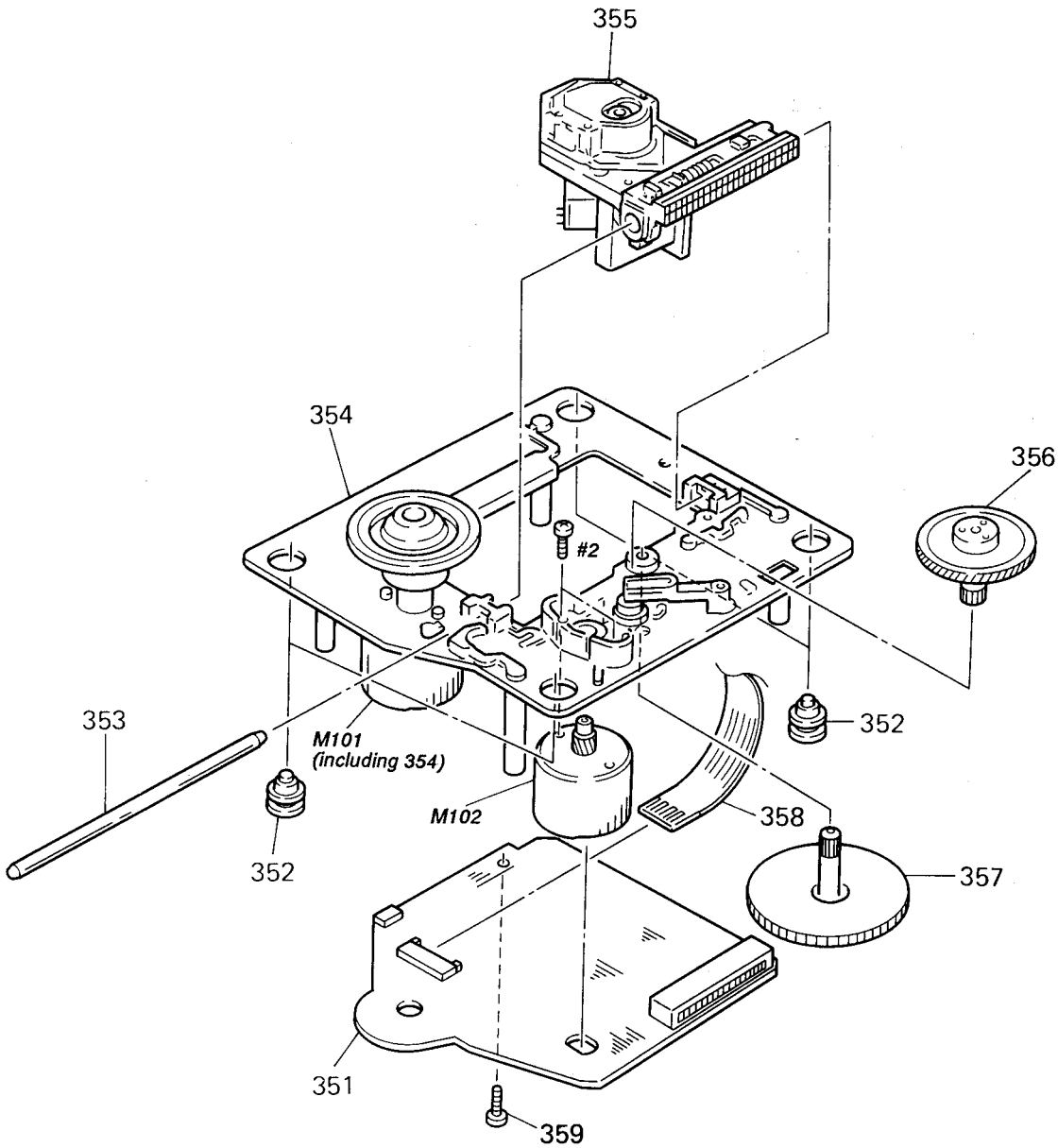
(4) OPTICAL PICK-UP BLOCK (BU-5BD8A)



Ref. No.	Part No.	Description	Remark
* 351	A-4617-977-A	BD BOARD, COMPLETE	
352	4-933-126-01	INSULATOR (A)	
353	4-917-565-01	SHAFT, SLED	
354	X-4917-523-3	BASE ASSY (OUTSERT) (Inculding M101)	
⚠355	8-848-144-11	PICK-UP, OPTICAL KSS-240A	
356	4-917-567-01	GEAR (M)	
357	4-917-564-01	GEAR (P), FLATNESS	
358	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
359	4-951-620-01	SCREW (2.6X8), +BVTP	
M102	X-4917-504-1	MOTOR ASSY (SLED)	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 6
ELECTRICAL PARTS LIST

BD

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description			Remark
*	A-4617-977-A	BD BOARD, COMPLETE **********			
		< CAPACITOR >			
C101	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C102	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C103	1-163-005-11	CERAMIC CHIP	470PF	10% 50V	
C104	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C105	1-135-155-21	TANTALUM CHIP	4.7uF	10% 16V	
C106	1-164-346-11	CERAMIC CHIP	1uF	16V	
C107	1-164-505-11	CERAMIC CHIP	2.2uF	16V	
C108	1-164-346-11	CERAMIC CHIP	1uF	16V	
C112	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C151	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C152	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C153	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
C154	1-164-336-11	CERAMIC CHIP	0.33uF	25V	
C155	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C156	1-163-007-11	CERAMIC CHIP	680PF	10% 50V	
C157	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C158	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C159	1-163-023-00	CERAMIC CHIP	0.015uF	5% 50V	
C160	1-163-019-00	CERAMIC CHIP	0.0068uF	10% 50V	
C181	1-163-038-00	CERAMIC CHIP	0.1uF	25V	
		< CONNECTOR >			
CN101	1-568-796-11	SOCKET, CONNECTOR 22P			
CN102	1-568-795-11	SOCKET, CONNECTOR 12P			
CN103	1-564-721-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< IC >			
IC101	8-752-344-48	IC CXD2501Q			
IC102	8-759-071-80	IC BA6297AFP			
IC103	8-759-040-83	IC BA6287F			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R101	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R102	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R103	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R104	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R105	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R112	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R113	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R114	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R117	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R118	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R121	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R122	1-216-077-00	METAL CHIP	15K	5% 1/10W	
R151	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R152	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R153	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R154	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R155	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R156	1-216-070-00	METAL CHIP	7.5K	5% 1/10W	
R157	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R158	1-216-076-00	METAL CHIP	13K	5% 1/10W	
R159	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R160	1-216-081-00	METAL CHIP	22K	5% 1/10W	
R161	1-216-093-00	METAL CHIP	68K	5% 1/10W	
R162	1-216-085-00	METAL CHIP	33K	5% 1/10W	
R163	1-216-308-00	METAL CHIP	4.7	5% 1/10W	
R181	1-216-021-00	METAL CHIP	68	5% 1/10W	
R182	1-216-021-00	METAL CHIP	68	5% 1/10W	
		< SWITCH >			
S101	1-572-085-11	SWITCH, LEAF (LIMIT)			

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DISP | DSP VOL | FUNCTION

Ref. No.	Part No.	Description				Remark
*	A-4649-137-A	DISP BOARD, COMPLETE				
		**********				
		< CAPACITOR >				
C401	1-164-159-11	CERAMIC	0.1uF			50V
C402	1-164-159-11	CERAMIC	0.1uF			50V
C403	1-164-159-11	CERAMIC	0.1uF			50V
C404	1-164-159-11	CERAMIC	0.1uF			50V
C405	1-164-159-11	CERAMIC	0.1uF			50V
C406	1-164-159-11	CERAMIC	0.1uF			50V
C407	1-164-159-11	CERAMIC	0.1uF			50V
C408	1-164-159-11	CERAMIC	0.1uF			50V
C409	1-164-159-11	CERAMIC	0.1uF			50V
C410	1-164-159-11	CERAMIC	0.1uF			50V
		< CONNECTOR >				
* CN401	1-691-958-11	SOCKET, CONNECTOR 35P				
* CN402	1-691-188-11	CONNECTOR, BOARD TO BOARD 18P				
* CN403	1-564-708-11	PIN, CONNECTOR (SMALL TYPE) 6P				
		< DIODE >				
D401	8-719-987-63	DIODE	1N4148M			
D402	8-719-987-63	DIODE	1N4148M			
D403	8-719-987-63	DIODE	1N4148M			
D404	8-719-987-63	DIODE	1N4148M			
D405	8-719-987-63	DIODE	1N4148M			
D406	8-719-987-63	DIODE	1N4148M			
D407	8-719-987-63	DIODE	1N4148M			
D408	8-719-987-63	DIODE	1N4148M			
D409	8-719-987-63	DIODE	1N4148M			
D410	8-719-987-63	DIODE	1N4148M			
D411	8-719-987-63	DIODE	1N4148M			
D412	8-719-987-63	DIODE	1N4148M			
		< INDICATOR TUBE >				
FLD401	1-519-696-11	INDICATOR TUBE, FLUORESCENT				
		< IC >				
IC401	8-752-834-34	IC	CXP82320-003Q			
IC402	8-749-922-36	IC	GP1U50XB			
		< RESISTOR >				
R401	1-249-429-11	CARBON	10K	5%	1/4W	
R402	1-249-429-11	CARBON	10K	5%	1/4W	
R403	1-249-425-11	CARBON	4.7K	5%	1/4W	
R404	1-249-425-11	CARBON	4.7K	5%	1/4W	
R405	1-249-425-11	CARBON	4.7K	5%	1/4W	
R406	1-249-429-11	CARBON	10K	5%	1/4W	
R407	1-249-429-11	CARBON	10K	5%	1/4W	
R408	1-249-435-11	CARBON	33K	5%	1/4W	
R411	1-249-417-11	CARBON	1K	5%	1/4W	
R414	1-249-441-11	CARBON	100K	5%	1/4W	
		< SWITCH >				
S439	1-554-303-21	SWITCH, TACTILE (⏏ OPEN/CLOSE)				
S440	1-554-303-21	SWITCH, TACTILE (CONTINUE)				
S441	1-554-303-21	SWITCH, TACTILE (SHUFFLE)				
S442	1-554-303-21	SWITCH, TACTILE (PROGRAM)				
S491	1-554-118-00	SWITCH, PUSH (1 KEY) (POWER)				
S492	1-570-157-51	SWITCH, SLIDE (TIMER)				
		< CRYSTAL >				
X401	1-579-175-11	VIBRATOR, CERAMIC (4.19MHz)				
**********						
*	1-643-866-11	DSP VOL BOARD				
		**********				
		< CONNECTOR >				
* CN521	1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P				
		< VARIABLE RESISTOR >				
RV521	1-241-738-11	RES, VAR, CARBON 10K (EFFECT)				
**********						
*	1-643-867-11	FUNCTION BOARD				
		**********				
		< CONNECTOR >				
* CN404	1-691-187-11	CONNECTOR, BOARD TO BOARD 18P				
		< DIODE >				
D415	8-719-313-72	DIODE	SEL3810A-CD			
		< RESISTOR >				
R406	1-249-399-11	CARBON	330	5%	1/4W	
R408	1-249-435-11	CARBON	33K	5%	1/4W	
R409	1-249-435-11	CARBON	33K	5%	1/4W	
R410	1-249-435-11	CARBON	33K	5%	1/4W	
R412	1-249-435-11	CARBON	33K	5%	1/4W	
		< SWITCH >				
S401	1-554-303-21	SWITCH, TACTILE (HALL/1)				
S402	1-554-303-21	SWITCH, TACTILE (CHURCH/2)				
S403	1-554-303-21	SWITCH, TACTILE (JAZZ CLUB/3)				
S404	1-554-303-21	SWITCH, TACTILE (STADIUM/4)				
S405	1-554-303-21	SWITCH, TACTILE (DISCO/5)				

FUNCTION | HP | LOADING | MAIN

Ref. No.	Part No.	Description			Remark
S406	1-554-303-21	SWITCH, TACTILE (LIVE ROOM/6)			
S407	1-554-303-21	SWITCH, TACTILE (BGM/7)			
S408	1-554-303-21	SWITCH, TACTILE (8)			
S409	1-554-303-21	SWITCH, TACTILE (9)			
S410	1-554-303-21	SWITCH, TACTILE (10)			
S411	1-554-303-21	SWITCH, TACTILE (11)			
S412	1-554-303-21	SWITCH, TACTILE (12)			
S413	1-554-303-21	SWITCH, TACTILE (13)			
S414	1-554-303-21	SWITCH, TACTILE (14)			
S415	1-554-303-21	SWITCH, TACTILE (15)			
S416	1-554-303-21	SWITCH, TACTILE (16)			
S417	1-554-303-21	SWITCH, TACTILE (17)			
S418	1-554-303-21	SWITCH, TACTILE (18)			
S419	1-554-303-21	SWITCH, TACTILE (19)			
S420	1-554-303-21	SWITCH, TACTILE (20)			
S421	1-554-303-21	SWITCH, TACTILE (FLAT>20)			
S422	1-554-303-21	SWITCH, TACTILE (DSP/1-20)			
S423	1-554-303-21	SWITCH, TACTILE (PEAK SEARCH)			
S424	1-554-303-21	SWITCH, TACTILE (A. SPACE/A. CUE)			
S425	1-554-303-21	SWITCH, TACTILE (MUSIC SCAN)			
S426	1-554-303-21	SWITCH, TACTILE (TIME)			
S427	1-554-303-21	SWITCH, TACTILE (REPEAT)			
S428	1-554-303-21	SWITCH, TACTILE (FADER)			
S429	1-554-303-21	SWITCH, TACTILE (EDIT/TIME FADE)			
S430	1-554-303-21	SWITCH, TACTILE (◀◀)			
S431	1-554-303-21	SWITCH, TACTILE (▶▶)			
S432	1-554-303-21	SWITCH, TACTILE (▶)			
S433	1-554-303-21	SWITCH, TACTILE (❚❚)			
S434	1-554-303-21	SWITCH, TACTILE (■)			
S435	1-554-303-21	SWITCH, TACTILE (⏮)			
S436	1-554-303-21	SWITCH, TACTILE (⏭)			
S437	1-554-303-21	SWITCH, TACTILE (CHECK)			
S438	1-554-303-21	SWITCH, TACTILE (CLEAR)			
**********					
*	1-643-868-11	HP BOARD			
		********			
		< CAPACITOR >			
C511	1-162-290-31	CERAMIC	470PF	10%	50V
C512	1-162-290-31	CERAMIC	470PF	10%	50V
C513	1-164-159-11	CERAMIC	0. 1uF		50V
		< JACK >			
J511	1-568-519-41	JACK, LARGE TYPE (PHONES)			
		< RESISTOR >			
R511	1-249-402-11	CARBON	56	5%	1/4W
R512	1-249-402-11	CARBON	56	5%	1/4W

Ref. No.	Part No.	Description			Remark
*	1-632-202-11	LOADING BOARD			
		**********			
		< CONNECTOR >			
* CN301	1-564-707-11	PIN, CONNECTOR (SMALL TYPE) 5P			
		< SWITCH >			
S271	1-572-086-11	SWITCH, LEAF (LOAD OUT)			
S272	1-572-086-11	SWITCH, LEAF (LOAD IN)			
**********					
*	A-4649-140-A	MAIN BOARD, COMPLETE (CND, AEP, AUS)			
*	A-4649-253-A	MAIN BOARD, COMPLETE (E)			
		**********			
*	4-941-237-01	HEAT SINK			
		< CAPACITOR >			
C201	1-124-572-11	ELECT	100uF	20%	63V
C202	1-126-059-11	ELECT	10uF	20%	50V
C203	1-124-360-00	ELECT	1000uF	20%	16V
C204	1-126-937-11	ELECT	4700uF	20%	16V
C205	1-126-163-11	ELECT	4. 7uF	20%	50V
C206	1-126-059-11	ELECT	10uF	20%	50V
C207	1-126-059-11	ELECT	10uF	20%	50V
C208	1-124-997-11	ELECT	470uF	20%	10V
C209	1-124-997-11	ELECT	470uF	20%	10V
C211	1-124-997-11	ELECT	470uF	20%	10V
C212	1-124-997-11	ELECT	470uF	20%	10V
C213	1-130-487-00	MYLAR	0. 022uF	5%	50V
C214	1-126-023-11	ELECT	100uF	20%	16V
C220	1-164-159-11	CERAMIC	0. 1uF		50V
C221	1-164-159-11	CERAMIC	0. 1uF		50V
C223	1-164-159-11	CERAMIC	0. 1uF		50V
C224	1-164-159-11	CERAMIC	0. 1uF		50V
C225	1-164-159-11	CERAMIC	0. 1uF		50V
C226	1-164-159-11	CERAMIC	0. 1uF		50V
C227	1-164-159-11	CERAMIC	0. 1uF		50V
C301	1-126-022-11	ELECT	47uF	20%	16V
C302	1-126-301-11	ELECT	1uF	20%	50V
C303	1-164-159-11	CERAMIC	0. 1uF		50V
C304	1-164-159-11	CERAMIC	0. 1uF		50V
C305	1-126-022-11	ELECT	47uF	20%	16V
C306	1-164-159-11	CERAMIC	0. 1uF		50V
C307	1-164-159-11	CERAMIC	0. 1uF		50V
C308	1-164-159-11	CERAMIC	0. 1uF		50V
C309	1-164-159-11	CERAMIC	0. 1uF		50V
C311	1-130-491-00	MYLAR	0. 047uF	5%	50V
C312	1-161-374-11	CERAMIC	0. 0015uF	20%	50V

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Ref. No.	Part No.	Description			Remark
C313	1-161-494-00	CERAMIC	0.022uF		25V
C314	1-162-306-11	CERAMIC	0.01uF	20%	16V
C315	1-126-300-11	ELECT	0.47uF	20%	50V
C316	1-161-494-00	CERAMIC	0.022uF		25V
C319	1-162-282-31	CERAMIC	100PF	10%	50V
C320	1-130-483-00	MYLAR	0.01uF	5%	50V
C321	1-162-208-31	CERAMIC	24PF	5%	50V
C322	1-126-022-11	ELECT	47uF	20%	16V
C323	1-164-159-11	CERAMIC	0.1uF		50V
C324	1-164-159-11	CERAMIC	0.1uF		50V
C325	1-162-205-31	CERAMIC	18PF	5%	50V
C326	1-162-205-31	CERAMIC	18PF	5%	50V
C327	1-161-494-00	CERAMIC	0.022uF		25V
C328	1-126-059-11	ELECT	10uF	20%	50V
C329	1-126-022-11	ELECT	47uF	20%	16V
C331	1-161-494-00	CERAMIC	0.022uF		25V
C332	1-164-159-11	CERAMIC	0.1uF		50V
C333	1-162-294-31	CERAMIC	0.001uF	10%	50V
C351	1-126-022-11	ELECT	47uF	20%	16V
C352	1-164-159-11	CERAMIC	0.1uF		50V
C353	1-126-022-11	ELECT	47uF	20%	16V
C354	1-161-494-00	CERAMIC	0.022uF		25V
C355	1-126-022-11	ELECT	47uF	20%	16V
C356	1-164-159-11	CERAMIC	0.1uF		50V
C357	1-130-495-00	MYLAR	0.1uF	5%	50V
C358	1-130-495-00	MYLAR	0.1uF	5%	50V
C361	1-162-280-31	CERAMIC	82PF	10%	50V
C362	1-162-280-31	CERAMIC	82PF	10%	50V
C363	1-162-213-31	CERAMIC	39PF	5%	50V
C364	1-162-213-31	CERAMIC	39PF	5%	50V
C365	1-162-213-31	CERAMIC	39PF	5%	50V
C366	1-162-213-31	CERAMIC	39PF	5%	50V
C367	1-161-494-00	CERAMIC	0.022uF		25V
C368	1-161-494-00	CERAMIC	0.022uF		25V
C371	1-130-479-00	MYLAR	0.0047uF	5%	50V
C372	1-130-479-00	MYLAR	0.0047uF	5%	50V
C373	1-130-472-00	MYLAR	0.0012uF	5%	50V
C374	1-130-472-00	MYLAR	0.0012uF	5%	50V
C377	1-126-022-11	ELECT	47uF	20%	16V
C378	1-126-022-11	ELECT	47uF	20%	16V
C379	1-130-473-00	MYLAR	0.0015uF	5%	50V
C380	1-130-473-00	MYLAR	0.0015uF	5%	50V
C391	1-162-286-31	CERAMIC	220PF	10%	50V
C393	1-164-159-11	CERAMIC	0.1uF		50V
C396	1-164-159-11	CERAMIC	0.1uF		50V
C397	1-164-159-11	CERAMIC	0.1uF		50V
C901	1-164-159-11	CERAMIC	0.1uF		50V
C905	1-164-159-11	CERAMIC	0.1uF		50V
C910	1-126-012-11	ELECT	470uF	20%	16V
C911	1-126-012-11	ELECT	470uF	20%	16V
C913	1-161-494-00	CERAMIC	0.022uF		25V
C914	1-161-494-00	CERAMIC	0.022uF		25V
C915	1-126-022-11	ELECT	47uF	20%	16V
C916	1-126-022-11	ELECT	47uF	20%	16V
C917	1-162-219-31	CERAMIC	68PF	5%	50V
C918	1-162-219-31	CERAMIC	68PF	5%	50V
C919	1-124-463-00	ELECT	0.1uF	20%	50V
C920	1-124-463-00	ELECT	0.1uF	20%	50V
C921	1-124-463-00	ELECT	0.1uF	20%	50V
C922	1-124-463-00	ELECT	0.1uF	20%	50V
C923	1-124-463-00	ELECT	0.1uF	20%	50V
C924	1-124-463-00	ELECT	0.1uF	20%	50V

< CONNECTOR >

* CN201	1-580-230-11	PIN, CONNECTOR (PC BOARD) 3P	
* CN301	1-568-822-11	SOCKET, CONNECTOR 22P	
* CN302	1-691-958-11	SOCKET, CONNECTOR 35P	
* CN381	1-568-832-11	SOCKET, CONNECTOR 13P	

< DIODE >

D201	8-719-200-82	DIODE	11ES2
D202	8-719-121-24	DIODE	RD9.1ES-L
D203	8-719-200-82	DIODE	11ES2
D204	8-719-200-82	DIODE	11ES2
D205	8-719-200-82	DIODE	11ES2
D206	8-719-200-82	DIODE	11ES2
D208	8-719-109-89	DIODE	RD5.6ES-B2
D209	8-719-987-63	DIODE	1N4148M
D328	8-719-987-63	DIODE	1N4148M
D344	8-719-987-63	DIODE	1N4148M

< IC >

IC201	8-759-633-42	IC	M5293L
IC202	8-759-630-21	IC	M5290P-16
IC203	8-759-945-58	IC	RC4558P
IC204	8-759-604-86	IC	M5F7807L
IC301	8-752-337-26	IC	CXD2500AQ
IC302	8-752-342-65	IC	CXD2560M
IC303	8-752-349-02	IC	CXD2561AM-1
IC306	8-759-503-91	IC	TL082ACP
IC307	8-759-900-72	IC	NE5532P
IC391	8-749-921-20	IC	T-1550
IC901	8-759-232-07	IC	TC74HC04AP
IC902	8-752-341-99	IC	CXD2701Q
IC903	8-759-508-41	IC	MS51464-10NC
IC904	8-759-900-72	IC	NE5532P

Ref. No.	Part No.	Description	Remark
		< JACK >	
* J381	1-569-443-11	JACK, PIN 4P (LINE OUT FIXED/VARIABLE)	
		< COIL >	
L305	1-408-403-00	INDUCTOR 3.3uH	
L306	1-408-403-00	INDUCTOR 3.3uH	
L321	1-408-403-00	INDUCTOR 3.3uH	
		< TRANSISTOR >	
Q201	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q202	8-729-140-96	TRANSISTOR 2SD774-34	
Q203	8-729-141-83	TRANSISTOR 2SB1094-LK	
Q204	8-729-900-65	TRANSISTOR DTA144ES	
Q205	8-729-900-89	TRANSISTOR DTC144ES	
Q206	8-729-900-89	TRANSISTOR DTC144ES	
Q209	8-729-281-52	TRANSISTOR 2SC1815-Y	
Q341	8-729-900-65	TRANSISTOR DTA144ES	
Q342	8-729-900-65	TRANSISTOR DTA144ES	
Q343	8-729-900-65	TRANSISTOR DTA144ES	
Q344	8-729-900-89	TRANSISTOR DTC144ES	
Q371	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q372	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q373	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q374	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q375	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q376	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q393	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q912	8-729-900-63	TRANSISTOR DTA124ES	
Q913	8-729-900-63	TRANSISTOR DTA124ES	
Q914	8-729-900-63	TRANSISTOR DTA124ES	
Q919	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q920	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q921	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q922	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q923	8-729-231-55	TRANSISTOR 2SC2878-AB	
Q924	8-729-231-55	TRANSISTOR 2SC2878-AB	
		< RESISTOR >	
R201	1-249-435-11	CARBON 33K 5% 1/4W	
R202	1-249-438-11	CARBON 56K 5% 1/4W	
R203	1-249-429-11	CARBON 10K 5% 1/4W	
R204	1-249-425-11	CARBON 4.7K 5% 1/4W	
R205	1-249-425-11	CARBON 4.7K 5% 1/4W	
R208	1-249-423-11	CARBON 3.3K 5% 1/4W	
R209	1-249-413-11	CARBON 470 5% 1/4W	
R210	1-249-429-11	CARBON 10K 5% 1/4W	
R211	1-249-410-11	CARBON 270 5% 1/4W	
R213	1-249-417-11	CARBON 1K 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R214	1-249-417-11	CARBON 1K 5% 1/4W	
R301	1-249-417-11	CARBON 1K 5% 1/4W	
R302	1-249-417-11	CARBON 1K 5% 1/4W	
R303	1-249-421-11	CARBON 2.2K 5% 1/4W	
R304	1-249-417-11	CARBON 1K 5% 1/4W	
R305	1-249-411-11	CARBON 330 5% 1/4W	
R306	1-249-413-11	CARBON 470 5% 1/4W	
R309	1-249-405-11	CARBON 100 5% 1/4W	
R311	1-249-423-11	CARBON 3.3K 5% 1/4W	
R312	1-249-429-11	CARBON 10K 5% 1/4W	
R313	1-249-423-11	CARBON 3.3K 5% 1/4W	
R314	1-249-429-11	CARBON 10K 5% 1/4W	
R318	1-249-441-11	CARBON 100K 5% 1/4W	
R319	1-247-903-00	CARBON 1M 5% 1/4W	
R320	1-249-417-11	CARBON 1K 5% 1/4W	
R321	1-249-417-11	CARBON 1K 5% 1/4W	
R322	1-249-417-11	CARBON 1K 5% 1/4W	
R323	1-249-417-11	CARBON 1K 5% 1/4W	
R324	1-249-417-11	CARBON 1K 5% 1/4W	
R325	1-249-417-11	CARBON 1K 5% 1/4W	
R326	1-249-417-11	CARBON 1K 5% 1/4W	
R327	1-247-903-00	CARBON 1M 5% 1/4W	
R328	1-249-429-11	CARBON 10K 5% 1/4W	
R331	1-249-429-11	CARBON 10K 5% 1/4W	
R332	1-249-429-11	CARBON 10K 5% 1/4W	
R333	1-249-429-11	CARBON 10K 5% 1/4W	
R334	1-249-429-11	CARBON 10K 5% 1/4W	
R343	1-249-441-11	CARBON 100K 5% 1/4W	
R344	1-249-441-11	CARBON 100K 5% 1/4W	
R345	1-249-425-11	CARBON 4.7K 5% 1/4W	
R346	1-249-425-11	CARBON 4.7K 5% 1/4W	
R347	1-249-441-11	CARBON 100K 5% 1/4W	
R348	1-249-429-11	CARBON 10K 5% 1/4W	
R351	1-249-436-11	CARBON 39K 5% 1/4W	
R352	1-249-436-11	CARBON 39K 5% 1/4W	
R353	1-249-436-11	CARBON 39K 5% 1/4W	
R354	1-249-436-11	CARBON 39K 5% 1/4W	
R355	1-249-436-11	CARBON 39K 5% 1/4W	
R356	1-249-436-11	CARBON 39K 5% 1/4W	
R357	1-249-436-11	CARBON 39K 5% 1/4W	
R358	1-249-436-11	CARBON 39K 5% 1/4W	
R361	1-249-431-11	CARBON 15K 5% 1/4W	
R362	1-249-431-11	CARBON 15K 5% 1/4W	
R363	1-249-431-11	CARBON 15K 5% 1/4W	
R364	1-249-431-11	CARBON 15K 5% 1/4W	
R365	1-249-438-11	CARBON 56K 5% 1/4W	
R366	1-249-438-11	CARBON 56K 5% 1/4W	
R367	1-249-438-11	CARBON 56K 5% 1/4W	
R368	1-249-438-11	CARBON 56K 5% 1/4W	

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MAIN REMOTE CONTROL VOL

Ref. No.	Part No.	Description			Remark
R369	1-249-419-11	CARBON	1.5K	5%	1/4W
R370	1-249-419-11	CARBON	1.5K	5%	1/4W
R371	1-249-419-11	CARBON	1.5K	5%	1/4W
R372	1-249-419-11	CARBON	1.5K	5%	1/4W
R373	1-247-887-00	CARBON	220K	5%	1/4W
R374	1-247-887-00	CARBON	220K	5%	1/4W
R375	1-249-409-11	CARBON	220	5%	1/4W
R376	1-249-409-11	CARBON	220	5%	1/4W
R377	1-249-409-11	CARBON	220	5%	1/4W
R378	1-249-409-11	CARBON	220	5%	1/4W
R379	1-249-425-11	CARBON	4.7K	5%	1/4W
R380	1-249-425-11	CARBON	4.7K	5%	1/4W
R381	1-249-425-11	CARBON	4.7K	5%	1/4W
R382	1-249-425-11	CARBON	4.7K	5%	1/4W
R383	1-249-413-11	CARBON	470	5%	1/4W
R384	1-249-413-11	CARBON	470	5%	1/4W
R385	1-249-393-11	CARBON	10	5%	1/4W
R386	1-249-393-11	CARBON	10	5%	1/4W
R389	1-249-413-11	CARBON	470	5%	1/4W
R390	1-249-413-11	CARBON	470	5%	1/4W
R392	1-249-405-11	CARBON	100	5%	1/4W
R393	1-249-406-11	CARBON	120	5%	1/4W
R394	1-249-435-11	CARBON	33K	5%	1/4W
R901	1-249-417-11	CARBON	1K	5%	1/4W
R902	1-249-419-11	CARBON	1.5K	5%	1/4W
R903	1-249-417-11	CARBON	1K	5%	1/4W
R904	1-249-417-11	CARBON	1K	5%	1/4W
R905	1-249-417-11	CARBON	1K	5%	1/4W
R906	1-247-887-00	CARBON	220K	5%	1/4W
R907	1-249-417-11	CARBON	1K	5%	1/4W
R908	1-249-417-11	CARBON	1K	5%	1/4W
R909	1-249-417-11	CARBON	1K	5%	1/4W
R910	1-249-405-11	CARBON	100	5%	1/4W
R911	1-249-405-11	CARBON	100	5%	1/4W
R912	1-249-441-11	CARBON	100K	5%	1/4W
R913	1-249-441-11	CARBON	100K	5%	1/4W
R914	1-249-441-11	CARBON	100K	5%	1/4W
R915	1-249-419-11	CARBON	1.5K	5%	1/4W
R916	1-249-419-11	CARBON	1.5K	5%	1/4W
R917	1-249-441-11	CARBON	100K	5%	1/4W
R918	1-249-441-11	CARBON	100K	5%	1/4W
R919	1-249-425-11	CARBON	4.7K	5%	1/4W
R920	1-249-425-11	CARBON	4.7K	5%	1/4W
R921	1-249-421-11	CARBON	2.2K	5%	1/4W
R922	1-249-421-11	CARBON	2.2K	5%	1/4W
R923	1-249-422-11	CARBON	2.7K	5%	1/4W
R924	1-249-422-11	CARBON	2.7K	5%	1/4W
R925	1-249-425-11	CARBON	4.7K	5%	1/4W
R926	1-249-425-11	CARBON	4.7K	5%	1/4W
R927	1-249-419-11	CARBON	1.5K	5%	1/4W
R928	1-249-419-11	CARBON	1.5K	5%	1/4W
R929	1-247-828-11	CARBON	750	5%	1/4W
R930	1-247-828-11	CARBON	750	5%	1/4W
R931	1-249-425-11	CARBON	4.7K	5%	1/4W
R932	1-249-425-11	CARBON	4.7K	5%	1/4W
R933	1-249-417-11	CARBON	1K	5%	1/4W
R934	1-249-417-11	CARBON	1K	5%	1/4W
R935	1-249-410-11	CARBON	270	5%	1/4W
R936	1-249-410-11	CARBON	270	5%	1/4W
R941	1-249-417-11	CARBON	1K	5%	1/4W
R942	1-249-417-11	CARBON	1K	5%	1/4W
R943	1-249-417-11	CARBON	1K	5%	1/4W

< SWITCH >

⚠S201	1-571-722-11	SWITCH, VOLTAGE SELECTION (E) (VOLTAGE SELECTOR)			

< CRYSTAL >

X327	1-579-314-11	VIBRATOR, CRYSTAL (22.5MHz)			

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*	1-643-864-11	REMOTE CONTROL VOL BOARD **********			
*	4-922-980-01	HOLDER (LED)			

< CAPACITOR >

C451	1-124-994-11	ELECT	100uF	20%	10V
C452	1-124-994-11	ELECT	100uF	20%	10V
C471	1-124-994-11	ELECT	100uF	20%	10V
C472	1-124-277-11	ELECT	4.7uF	20%	35V

< CONNECTOR >

* CN451	1-568-832-11	SOCKET, CONNECTOR 13P
* CN472	1-564-719-11	PIN, CONNECTOR (SMALL TYPE) 3P

< DIODE >

D471	8-719-970-49	DIODE BR4361F

< IC >

IC451	8-759-981-89	IC RC4556S
IC471	8-759-962-08	IC BA6208

< RESISTOR >

R451	1-249-435-11	CARBON	33K	5%	1/4W
R452	1-249-435-11	CARBON	33K	5%	1/4W
R453	1-249-432-11	CARBON	18K	5%	1/4W
R454	1-249-432-11	CARBON	18K	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REMOTE CONTROL VOL

Ref. No.	Part No.	Description			Remark
R455	1-249-422-11	CARBON	2.7K	5% 1/4W	
R456	1-249-422-11	CARBON	2.7K	5% 1/4W	
R457	1-249-429-11	CARBON	10K	5% 1/4W	
R458	1-249-429-11	CARBON	10K	5% 1/4W	
R461	1-249-399-11	CARBON	33	5% 1/4W	
R462	1-249-399-11	CARBON	33	5% 1/4W	
R471	1-249-411-11	CARBON	330	5% 1/4W	
R472	1-249-417-11	CARBON	1K	5% 1/4W	
R473	1-249-417-11	CARBON	1K	5% 1/4W	
		< VARIABLE RESISTOR >			
RV451	1-238-974-11	RES, VAR, CARBON 10K/10K (LINE OUT PHONE LEVEL)			
		**********			
		MISCELLANEOUS			
		**********			
14	1-690-923-11	WIRE (FLAT TYPE) (35 CORE)			
27	1-690-392-11	WIRE, FLAT TYPE (13 CORE)			
53	1-575-002-11	WIRE, FLAT TYPE (22 CORE)			
⚠58	1-558-943-41	CORD, POWER (E)			
⚠58	1-574-358-31	CORD, POWER (WITH CONNECTOR) (AUS)			
⚠58	1-575-651-21	CORD, POWER (AEP)			
⚠58	1-590-836-11	CORD, POWER (CND)			
⚠62	1-569-007-11	ADAPTER, CONVERSION 2P (E)			
* 311	1-452-538-11	MAGNET			
⚠355	8-848-144-11	PICK-UP, OPTICAL KSS-240A			
358	1-575-001-11	WIRE, FLAT TYPE (12 CORE)			
M102	X-4917-504-1	MOTOR ASSY (SLED)			
M201	1-541-632-11	MOTOR, DC (LOADING)			
⚠PT1	1-449-921-11	TRANSFORMER, POWER (CND)			
⚠PT1	1-449-922-11	TRANSFORMER, POWER (AEP, AUS)			
⚠PT1	1-449-923-11	TRANSFORMER, POWER (E)			
		**********			
		ACCESSORIES & PACKING MATERIALS			
		**********			
	1-465-875-11	REMOTE COMMANDER (RM-D897)			
	1-558-271-11	CORD, CONNECTION			
	3-707-584-01	COVER, BATTERY			
	3-754-718-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, PORTUGUESE) (CND, AEP, E, AUS)			
	3-754-718-41	MANUAL, INSTRUCTION (GERMAN, ITALIAN, DUTCH, SWEDISH) (AEP)			
*	4-941-548-01	LABEL, CLASS 1 (AEP, E, AUS)			
*	4-941-925-01	CUSHION			
*	4-948-308-21	INDIVIDUAL CARTON			

HARDWARE LIST

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Ref. No.	Part No.	Description	Remark
#1	7-621-775-10	SCREW +B 2.6X4	
#2	7-621-255-15	SCREW +P 2X3	
#3	7-682-547-09	SCREW +B 3X6	
#4	7-682-548-04	SCREW +BVTT 3X8 (S)	
#5	7-682-548-09	SCREW +BVTT 3X8 (S)	
#6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#7	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

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